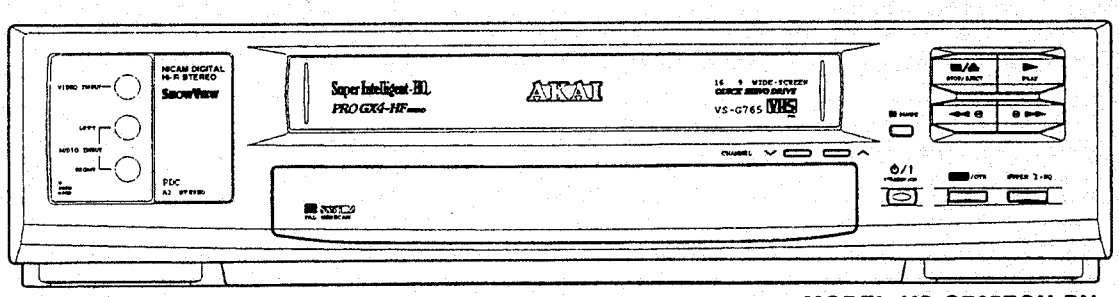
VS-G745,G760,G765
VS-G767,G770,G771

AKAI SERVICE MANUAL



MODEL VS-G765EOH-DN

HQ HIGH QUALITY VHS PAL SECAM

SHOWVIEW G-CODE

VIDEO Plus+

VIDEO CASSETTE RECORDER

MODEL **VS-G745** SE

MODEL **VS-G760** EDG/EOH-D/EOH-DN/SEG-N

MODEL **VS-G765** EA-D/EOH-D/EOH-DN/SEG-N

MODEL **VS-G767** EOG-D

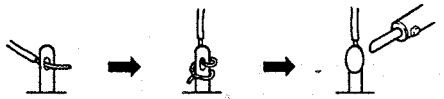
MODEL **VS-G770** EK-N/EOG-D/EOH-N/SEG-N

MODEL **VS-G771** EK-N

★ SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ symbol are critical for safety. Replace them only with the parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with the specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts.
   Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (insulating barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



6. Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.
The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 µF capacitor, under the unit's normal working conditions.
The leakage-current should be less than 0.5 mA rms AC.
The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.
Please leave them at an appropriate depot.

★ SPECIFICATIONS (AKAI brand models)

Format	VHS standard
Video recording system	Rotary, slant azimuth two-head helical scan system
Rotary heads	4 video heads and 2 audio heads
RF input	
EA-D	System B,G VHF: ch 0 - 5, 5A, 6 - 12 , UHF: ch 21 - 69
EDG	System D,K VHF: ch 1 - 12, UHF: ch 21 - 69 System B,G VHF: ch 2 - 12, UHF: ch 21 - 69 Cable: ch S1' - S3', S1 - S41
EK-N/SE	System I UHF: ch 21 - 69
EOG-D/EOH-D/ EOH-DN/EOH-N	System B,G (PAL, SECAM) VHF: ch 2 - 4, 5 - 12, UHF: ch 21 - 69 Cable: ch S1' - S3', S1 - S41
SEG-N	System L VHF: ch B - C, 1 - 6 , UHF: ch 21 - 69 Cable: B - Q System B,G (PAL, SECAM) VHF: ch 2 - 4, 5 - 12, UHF: ch 21 - 69 Cable: ch S1' - S3', S1 - S41
RF output	
EA-D	System B type modulation VHF ch 0, 1 switchable (preset: ch 1)
EDG	System K/G type modulation (switch) UHF ch 30 - 39 adjustable (preset: ch 36)
EK-N/SE	System I type modulation UHF ch 21 - 69 adjustable (or off) (preset: ch 35)
EOG-D/EOH-D/ EOH-DN/EOH-N	System G type modulation UHF ch 30 - 39 adjustable (preset: ch 36)
Stereo system	
EA-D/EOG-D/EOH-D	German Sound Multiplex (A2)
EK-N/SE	NICAM-I (U.K. NICAM)
EOH-DN	German Sound Multiplex (A2) & B/G NICAM
EOH-N	B/G-NICAM
SEG-N	SECAM-L NICAM & PAL-B/G NICAM
Recording (line input)	
EA-D/EK-N/SE	PAL
EDG	PAL, SECAM (recorded as MESECAM), NTSC (3.58/4.43)
EOG-D/EOH-D/ EOH-DN/EOH-N	PAL, SECAM (recorded as MESECAM)
SEG-N	SECAM/PAL (MESECAM)
Playback (line output)	
EA-D	PAL, NTSC 4.43 (NTSC tape) Simulated PAL (NTSC tape)
EDG	PAL, SECAM (MESECAM tape) NTSC4.43 (NTSC tape) Simulated PAL (NTSC tape)
EK-N/SE	PAL, Simulated PAL (NTSC tape)
EOG-D/EOH-D/ EOH-DN/EOH-N	PAL, SECAM (MESECAM tape) Simulated PAL (NTSC tape)
SEG-N	SECAM/PAL (MESECAM) Simulated PAL (NTSC tape)

Video	
Line input level	0.5 - 2.0 Vp-p/75 ohms, unbalanced
Line output level	1.0 Vp-p/75 ohms, unbalanced
S/N ratio	More than 45 dB
Horizontal resolution	More than 250 lines More than 230 lines (SECAM: SEG-N only) More than 220 lines (NTSC: EDG)
Audio (VHS Hi-Fi: 2 ch, linear: 1 ch)	
Line input level	–6 dBs/50 k ohms, unbalanced
Line output level	–6 dBs/1 k ohms, unbalanced
Dynamic range	More than 90 dB (VHS Hi-Fi)
Frequency response	20 - 20,000 Hz (VHS Hi-Fi)
Wow & Flutter	Less than 0.005 % WRMS (VHS Hi-Fi)
Recording/Playback time	
CCIR	240 min. with E-240 cassette in SP mode 480 min. with E-240 cassette in LP mode
NTSC (except EDG: playback only)	160 min. with T-160 cassette in SP mode 480 min. with T-160 cassette in EP mode
Tape speed	
CCIR	23.39 mm/sec. in SP mode 11.695 mm/sec. in LP mode
NTSC	33.35 mm/sec. in SP mode 11.12 mm/sec. in EP mode
Quick finder	
CCIR	Approx. 7 times normal speed in both LP/SP modes
NTSC	Approx. 5 times normal speed in both EP/SP modes
FF, RWD time	Approx. 2.5 min. with E-180 cassette
Timer	
Program	8 programs/1 year and OTR
Clock reference	Quartz crystal
Display	TV screen & FLD (tape counter, timer etc.)
Power requirement	220 - 240 V AC, 50 Hz
Power consumption	
EA-D/EOG-D/EOH-N	21 W
EDG	22 W
EK-N/SE/SEG-N	24 W
EOH-D	20 W
EOH-DN	25 W
Operating temperature	5 °C - 40 °C
Dimensions	380 (W) x 93 (H) x 298 (D) mm
Weight	3.8 kg

Standard accessories

AC cord	1
Antenna cable	1
AC plug adaptor	1 (SE only)
21 pin AV cable	1 (SEG-N only)
Remote control unit	1
Batteries for remote control	2 (except 760EOH-D/DN)
Operator's manual	1

0 dBs = 0.775 VRMS

* For improvement purposes, specifications and design are subject to change without notice.
* VIDEO PLUS+ AND PLUSCODE ARE TRADEMARKS APPLIED FOR BY GEMSTAR DEVELOPMENT CORP.
  VIDEO PLUS+ SYSTEM IS MANUFACTURED UNDER LICENCE FROM GEMSTAR DEVELOPMENT CORPORATION.
* SHOWVIEW IS A TRADEMARK APPLIED FOR BY GEMSTAR DEVELOPMENT CORPORATION.
  SHOWVIEW SYSTEM IS MANUFACTURED UNDER LICENCE FROM GEMSTAR DEVELOPMENT CORPORATION.
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  G-CODE SYSTEM IS MANUFACTURED UNDER LICENCE FROM GEMSTAR DEVELOPMENT CORPORATION.

★ SPECIFICATIONS (non-AKAI brand models)

Format	VHS standard
Video recording system	Rotary, slant azimuth two-head helical scan system
Rotary heads	4 video heads and 2 audio heads
RF input	System B,G (PAL, SECAM) VHF: ch 2 - 4, 5 - 12 UHF: ch 21 - 69 Cable: ch S1' - S3', S1 - S41
RF output	System G type modulation UHF ch 21 - 69 adjustable (or off) (preset: ch 36)
Stereo system	
VCR 3087CE	German Sound Multiplex (A2)
VCR 1937NE/3087NE/ 4087NE/6857NE	B/G NICAM
Recording (line input)	PAL SECAM (recorded as MESECAM)
Playback (line output)	PAL,SECAM (MESECAM tape) Simulated PAL (NTSC tape)
Video	
Line input level	0.5-2.0 Vp-p/75 ohms, unbalanced
Line output level	1.0 Vp-p/75 ohms, unbalanced
S/N ratio	More than 45 dB
Horizontal resolution	More than 250 lines
Audio (VHS Hi-Fi: 2 ch, linear: 1 ch)	
Line input level	–6 dBs/50 k ohms, unbalanced
Line output level	–6 dBs/1 k ohms, unbalanced
Dynamic range	More than 90 dB (VHS Hi-Fi)
Frequency response	20 - 20,000 Hz (VHS Hi-Fi)
Wow & Flutter	Less than 0.005 % WRMS (VHS Hi-Fi)
Recording/Playback time	
CCIR	240 min. with E-240 cassette in SP mode 480 min. with E-240 cassette in LP mode
NTSC (playback only)	160 min. with T-160 cassette in SP mode 480 min. with T-160 cassette in EP mode

Tape speed	
CCIR	23.39 mm/sec. in SP mode 11.695 mm/sec. in LP mode
NTSC	33.35 mm/sec. in SP mode 11.12 mm/sec. in EP mode
Quick finder	
CCIR	Approx. 7 times normal speed in both LP/SP modes
NTSC	Approx. 5 times normal speed in both EP/SP modes
FF, RWD time	Approx. 2.5 min. with E-180 cassette
Timer	
Program	8 programs/1 year and OTR
Clock reference	Quartz crystal
Display	TV screen & FLD (tape counter, timer etc.)
Power requirement	220 - 240 V AC, 50 Hz
Power consumption	
VCR 3087CE	20 W
VCR 1937NE/3087NE/ 4087NE/6857NE	21 W
Operating temperature	5 °C - 40 °C
Dimensions	380 (W) x 93 (H) x 298 (D) mm
Weight	3.8 kg

Standard accessories

AC cord	1
Antenna cable	1
Remote control unit	1
Batteries for remote control	2
Operator's manual	1

0 dBs = 0.775 VRMS

* For improvement purposes, specifications and design are subject to change without notice.
* SHOWVIEW IS A TRADEMARK APPLIED FOR BY GEMSTAR DEVELOPMENT CORPORATION. SHOWVIEW SYSTEM IS MANUFACTURED UNDER LICENCE FROM GEMSTAR DEVELOPMENT CORPORATION.

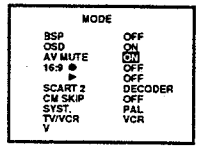
★ INFORMATION

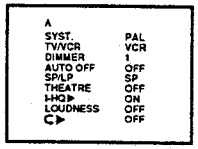
MULTI FUNCTION MENU MODE

This is an on-screen display of the various modes you can programme via the TV screen.

TV SCREEN

LANGUAGE : To select a language for the on-screen displays.
PS SET : To preset or cancel TV stations.
CLOCK SET : To set the clock and AUTO ADJUST TV station.
MODE : To set BSP (blank skip play ON/OFF), OSD (on screen display ON/OFF), AV MUTE (ON/OFF), 16:9 (REC ON/OFF, PB ON/OFF), SCART2 (DECODER/ AV2), CM SKIP (30/60/150/OFF), SYST. (colour system PAL/MESECAM/NTSC →PAL/NTSC4.43), TV/VCR, DIMMER (FLD bright-ness 1,2,3), AUTO OFF (auto power off), SP/LP, THEATRE (ON/OFF), I-HQ (ON/OFF), LOUDNESS (ON/OFF), ⊂► (repeat ON/OFF)





FEATURES : To perform ⊂0 (return to counter zoro), BLANK (blank search), INTRO (intro scan) or T. TUNING (tape tuning) functions.
PROGRAM : To set manual timer recording.
PROGRAM LIST : To review the times, dates or cancel programs that you have entered for timer recording.

If necessary, refer to the respective sections in the operator's manual for detailed information.

※ Some modes are not available on certain models.

1. Press the "MENU" button on the remote control unit. The menu list screen will be displayed on the TV screen.
2. Select the desired menu with the "∧" or "∨" button.
3. Press the "OK" button. The selected menu screen will be displayed on the TV screen.
4. Select the desired mode (or function) with the "∨" or "∧" button. The number of the modes (or functions) depends on the sort of the menu.
5. Set the each mode (or function) by pressing the "∨" or "∧" button and ">" or "<" button.
6. Press the "OK" button. The selected menu screen will be disappeared few seconds after the "OK" button is pressed. This means the setting has been completed correctly.

MANUAL TRACKING/PICTURE/STABILITY ADJUSTMENT

Using the remote control, the VCR can be adjusted for tracking and picture sharpness anytime during the playback mode.

- Manual tracking control
  Press the "<" or ">" button repeatedly until the picture is clear. During manual tracking adjustment, the tracking position is shown on the TV screen, and disappears automatically after adjustment has been completed. Use this function when performing the A/C HEAD phase adjustment.
- Picture sharpness control
  Press the "∧" button repeatedly to sharpen the picture or press the "∨" button to soften the picture.
- Stability adjustment

1) To correct picture shake during the slow motion or still mode:
   Press the "∧" or "∨" button repeatedly until the picture shake is corrected.
2) To correct tracking during the still mode:
   Press the "<" or ">" button repeatedly until the picture is clear.

ERROR ANNOUNCEMENT

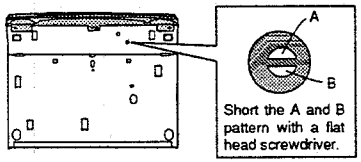
When a malfunction occurs, the following error indicators appear on the FL display to indicate the problem when the power is turned off.

Err 1 : AL power supply has short circuited.
Err 2 : The loading motor has stopped.
(When the mechanism position detect switch is not able to read the specified code, that is to say not able to reach the specified position within the specified time.)
Err 3 : The drum motor has stopped.
(When the drum motor does not rotate due to condensation, etc.)
Err 4 : The capstan motor has stopped.

PRESETS IN THE TEST MODE

1) Engaging the "TEST MODE"

To set the VCR to the test mode, firstly short the reset circuit pattern located on the bottom as shown below, with a flat head screw driver (This will ground the reset pin of the system control MI-COM). Next, plug in the AC power cord while pressing and holding both the "STANDBY/ON" and "STOP/EJECT" buttons (on the FRONT PANEL) at the same time.

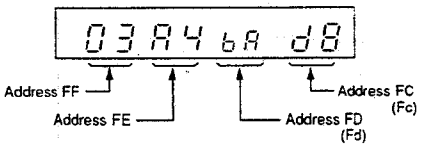


Short the reset circuit pattern to disengage the "TEST MODE". (The test mode is not disengaged, even if the AC power cord is disconnected, without shorting the reset circuit.

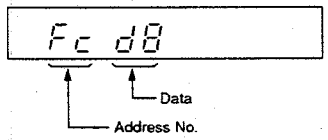
NOTE: Once the system control MI-COM is reset, clock and program data will be cancelled.

2) Model code preset

1. Engage the "test mode". (Never turn the power on.) The model code will be displayed in the FL display in 8 digit form.



2. While pressing both the "FF" and "RWD" buttons, reset the system control MI-COM and keep holding the "FF" and "RWD" buttons until the address number (typically, Fc or Fb) appears.
   The address number will be shown in 2 digits in the hours display of the FL display and its data will be shown in 2 digits in the minutes display.



3. Select address "Fc" by pressing the "FF" or "FWD" button if the address "Fc" is not appeared.
4. Choose the data in the address Fc column, that corresponds to the model number you are working on, from the following list. Set the chosen data value by pressing the "STOP/EJECT" or "PLAY" button.

MODEL	MODEL CODE	ADDRESS			
		Fc	Fd	FE	FF
VS-G745SE	01A0bA58	58	bA	A0	01
VS-G760EDG	0187A0d0	d0	A0	87	01
VS-G760EOH-D	0184A8d0	d0	A8	84	01
VS-G760EOH-DN	0384A8d0	d0	A8	84	03
VS-G760SEG-N	03AcbAd0	d0	bA	Ac	03
VS-G765EA-D	0181A958	58	A9	81	01
VS-G765EOH-D	03A4bAd8	d8	bA	A4	03
VS-G765EOH-DN	03A4bAd8	d8	bA	A4	03
VS-G765SEG-N	03AcbAd8	d8	bA	Ac	03
VS-G767EOG-D	03Acb2d8	d8	b2	Ac	03
VS-G770EK-N	01A0bA58	58	bA	A0	01
VS-G770EOH-N(E)	01A4b8d8	d8	b8	A4	01
VS-G770EOH-N(S)	0184A8d8	d8	A8	84	01
VS-G770EOG-D	03Acb2d8	d8	b2	Ac	03
VS-G770SEG-N	03AcbAd8	d8	bA	Ac	03
VS-G771EK-N	01A0bAd8	d8	bA	A0	01
VCR 3087CE	03A43Ad8	d8	3A	A4	03
VCR 1937NE	01A43Ad8	d8	3A	A4	01
VCR 3087NE	01A43Ad8	d8	3A	A4	01
VCR 4087NE	01A43Ad8	d8	3A	A4	01
VCR 6857NE	01A43Ad8	d8	3A	A4	01

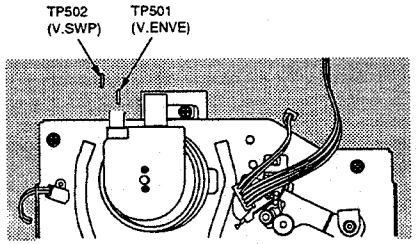
(On the FL display, B, C and D are indicated with small letters.)

5. Memorize the data into the EEP ROM IC by pressing the "REC" button.
6. The address "Fd" and its data will be shown in the FL display approx 2 seconds later automatically. Repeat the presetting (steps 4 to 5) for addresses "Fd", "FE" and "FF" in the same manner as address "Fc".
7. Reset the system control MI-COM to disengage the model code preset mode.

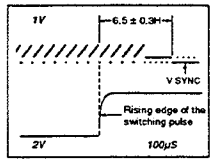
NOTE : This model code preset is absolutely necessary when the IC406 (EEP-ROM) on the MAIN PCB is replaced.

3) Video switching point preset

1. Engage the "test mode" and press the "POWER" button.
2. Connect CH-1 of an oscilloscope to VIDEO OUT and CH-2 to the TP502 (V-SWP) on the MAIN PCB for triggering.



3. Play back the reference tape TF-530RFS (Part No. : AT-751775). Check the channel display of the FL display so that "1F" (center position in the tracking range) is indicated at this point. If not indicated, press the "<" or ">" button on the remote control until "1F" is indicated.
4. Press the "REC" button during playback.
5. Confirm that the switching point is positioned 6.5 ± 0.3 H before the left edge of the V-sync as shown.



NOTE:

a) Make sure that the A/C head phase adjustment has been adjusted correctly before making video switching point preset. (Refer to step 4-3)
b) This switching point preset is absolutely necessary after the folllowing replacements.
- When the video head Assy is replaced.
- When the DRUM MOTOR PCB is replaced.
- When the SERVO/SYSCON MI-COM or EEP ROM IC (IC406) on the MAIN PCB is replaced.

4) Memorization of the reference RF envelope detect voltage (I-HQ)

For correct operation of the I-HQ tape tuning system, memorization of the reference RF envelope detect voltage is absolutely necessary. When the VIDEO HEAD Assy or EEP ROM IC in the MAIN PCB is replaced for any reason, memorize the reference RF envelope detect voltage according to the following procedure.

1. Engage the test mode.
2. Turn the VCR power ON.
3. Set the tape speed to "LP mode".
4. Insert the I-HQ test tape "TF-556AT" (AT-751822J) and then perform tape tuning by pressing both the "I-HQ" and "REC" buttons simultenuously.
5. Make a recording on the I-HQ test tape for more than 1 minute and then rewind it to the point where the recording was started.
6. Play back the tape. Reference RF envelope detect voltage data in the memory is displayed in 2 digits in the minutes display part of the FL display and the present envelope detect voltage data is displayed in 2 digits in the seconds display part (the data is displayed in hexadecimal numbers).
7. After the auto tracking has been activated, press the "CANCEL" button on the remote control unit. So present RF envelope detect voltage data will be transferred to the minutes part's 2 digits and memorized in the EEP ROM IC.
8. Next, set the tape speed to "SP mode" and repeat the steps 4 to 7.
9. Terminate the test mode.

5) Other facilities in the test mode

1. Tracking position display

In the "SP play" mode, tracking position data can be displayed on the FL display. Data is displayed in 64 steps in hexadecimal numbers from "00" to "3F" in the channel display part on the FL display. Pressing the "TV/VCR" button on the remote control unit during playback directly sets the tracking to the maximum "3F" position and pressing the "COUNTER RESET" button sets it to the minimum "00" position.
Pressing the "PLAY" button during playback sets tracking to the center position "1F" automatically. If "1F" does not appear even when the "PLAY" button is pressed, keep pressing the "<" or ">" cursor button on the remote control until "1F" is indicated and then press the "OK" button to memorize the position.

2. Suspension of the tape protection system

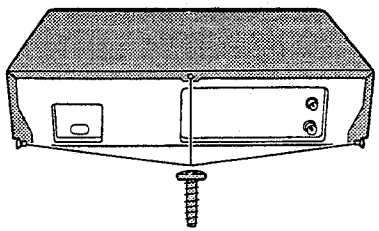
When the VCR is not in the "test mode", the "REC PAUSE" mode will be released after 30 minutes in order to protect the tape. The "STILL" mode will also be released after 5 minutes. During the "test mode", however this tape protection system will not operate.

※ Video head rotation will stop 5 min. after the "REC PAUSE" mode has been engaged even during the test mode.

I. DISASSEMBLY

In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations.
Reassemble in the reverse order.
When reattaching the FRONT PANEL, hold the cassette loading slot door in the upright (open) position.

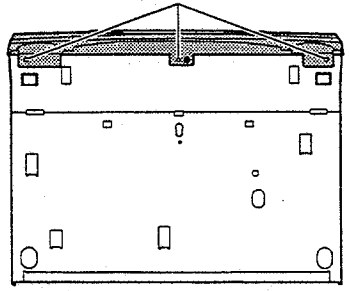
1. Removal of UPPER COVER



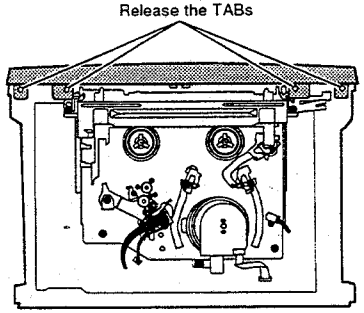
Lift the back part of the UPPER COVER up to remove.

2. Removal of FRONT PANEL

Release the TABs



Release the TABs



II. PRINCIPAL PARTS LOCATION

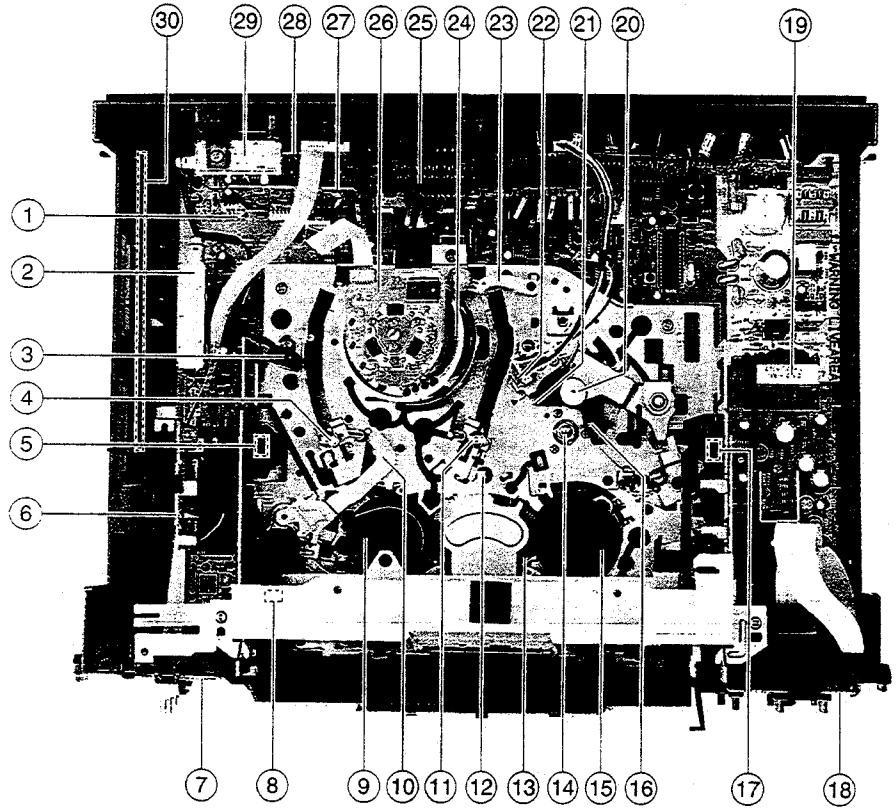


Fig. 2-1 Top view

1. MAIN PCB
2. TUNER UNIT
3. FULL TRACK ERASE HEAD
4. GUIDE LEADER (L) BLOCK
5. TAPE END SENSOR
6. VIF Hi-Fi PCB (except EDG,SEG-N models)
   VIF EDG PCB (EDG model only)
   VIF SEG PCB (SEG-N models only)
7. FRONT PCB (AKAI models only)
   FRONT (OEM) PCB (OEM models only)
8. REC SAFETY SWITCH
9. REEL DISK (S)
10. TENSION ARM
11. GUIDE LEADER (R) BLOCK
12. SENSOR LED
13. IDLER ARM PART
14. CAPSTAN MOTOR
15. REEL DISK (T)
16. REVIEW ARM
17. TAPE START SENSOR
18. OPERATION PCB (AKAI models only)
    OPERATION (OEM) PCB (OEM models only)
19. PULSE POWER TRANSFORMER
20. PINCH ROLLER ARM
21. TAKE UP TAPE GUIDE
22. A/C (AUDIO/CONTROL/SIDE TRACK ERASE) HEAD
23. HEAD CLEANER BLOCK
24. ROTARY VIDEO HEAD BLOCK
25. PCB HOLDER
26. DRUM MOTOR PCB
27. D-NICAM PCB
    (AKAI models: EK-N, EOH-N/DN, SE, SEG-N only)
    (OEM models: VCR1937,3087,4087, 6857NE only)
28. AUDIO PCB
29. RF CONVERTER/BOOSTER UNIT
30. SECAM PCB (SEG-N models only)

※The photograph on this page is of model VS-G765EOH-DN.

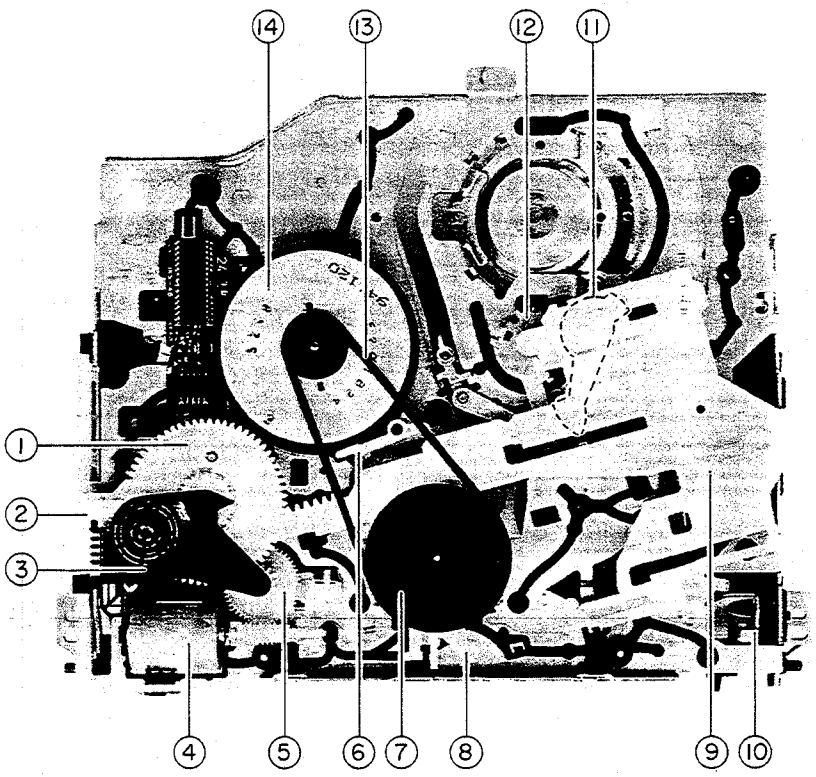


Fig. 2-2 Bottom view of the mechanism block

1. CENTER CAM GEAR
2. LOADING SLIDE
3. MODE DETECT SWITCH
4. LOADING MOTOR
5. WHEEL GEAR
6. SLOW ARM BRAKE
7. CLUTCH DISK PART
8. COUPLING ARM
9. MAIN SLIDER
10. LOADING ARM BLOCK
11. TOGGLE LEVER (L)
12. TOGGLE GEAR (R)
13. CAPSTAN BELT
14. CAPSTAN MOTOR BLOCK

III. DISASSEMBLY OF THE MAIN COMPONENTS

3-1. REMOVAL OF THE MECHANISM BLOCK

NOTE: Some parts in the mechanism block require complete removal of the mechanism block from the chassis when performing servicing.
Set the loading mechanism to the "EJECT" position by pressing the "EJECT" button, then disconnect the AC power plug from the AC socket before proceeding. This sets the loading mechanism to the "reference position".

1) Disconnect the flat cable on the DRUM MOTOR PCB as shown in Fig. 3-1.

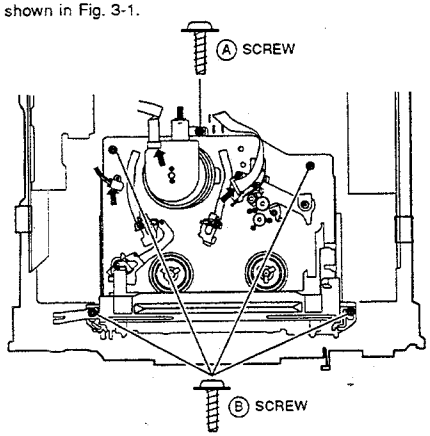


Fig. 3-1

2) Disconnect the connectors on the FULL TRACK ERASE HEAD and A/C HEAD.
3) Remove the Ⓐ screw and shield cover then disconnect the flat cable carefully.
4) Remove the four Ⓑ retaining screws and remove the MECHANISM BLOCK.

3-2. REMOVAL OF THE EJECTOR BLOCK

3-2-1. Removal of the CASSETTE HOLDER BLOCK

1) Remove the UPPER CHASSIS by pushing the Ⓐ part in the direction of the arrow while pressing the STOPPER, as shown in Fig. 3-2.

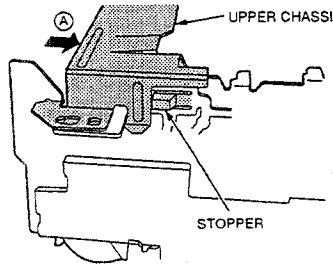


Fig. 3-2

2) Disengage the right end of the CASSETTE HOLDER BLOCK from its rail while pulling the STOPPER outwards.

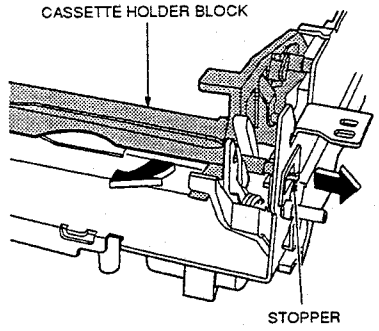


Fig. 3-3

3) Carefully pull the CASSETTE HOLDER BLOCK in the upper right direction and remove it from the mechanism block.

3-2-2. Removal of the LOADING ARM BLOCK

1) Connect a 6 V battery to the LOADING MOTOR or turning the LOADING MOTOR shaft manually, position the LOADING ARM to about 30° from vertical, as shown in Fig. 3-5.

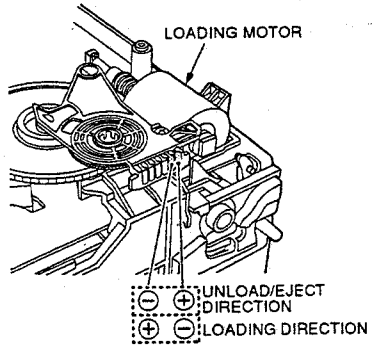


Fig. 3-4

NOTE: To avoid adding excessive stress to the mechanism, the voltage should not exceed 6V when connecting a battery to the LOADING MOTOR.

2) While pulling the left side STOPPER outwards, pull out the left end of the LOADING ARM from the bracket and remove the LOADING ARM BLOCK from the mechanism as shown in Fig. 3-5.

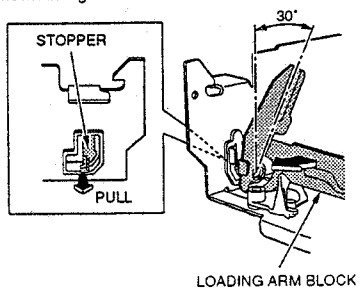


Fig. 3-5

3) Re-assemble in the reverse order for installation.
Re-position the LOADING ARM angle to the reference (EJECT) position before attaching the CASSETTE HOLDER BLOCK.

3-3. DISASSEMBLY OF THE LOADING DRIVE BLOCK

3-3-1. Removal of the LOADING MOTOR and MODE DETECT SWITCH

1) Remove the retaining screw then turn the LOADING MOTOR BLOCK in the direction of the arrow while releasing the Ⓐ and Ⓑ hooks, as shown in Fig. 3-6.

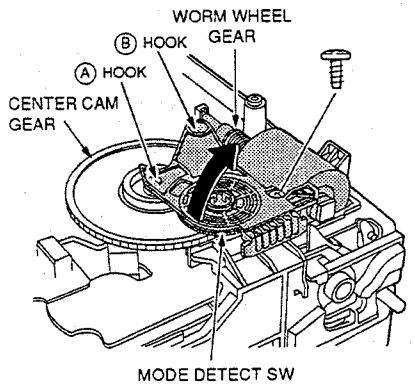


Fig. 3-6

2) Press the lower side of the LOADING MOTOR in the direction of the arrow and then remove the LOADING MOTOR BLOCK (shown in Fig. 3-7) taking care not to damage the Ⓐ part.

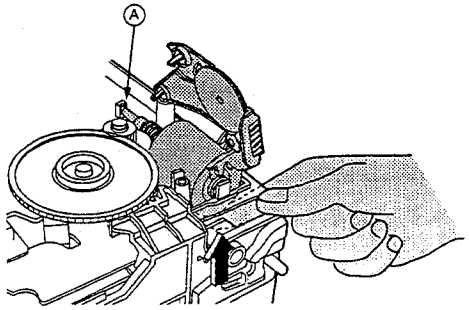


Fig. 3-7

3-3-2. Removal of the MAIN SLIDER

1) Remove the LOADING MOTOR BLOCK and CENTER CAM GEAR.
2) Remove the CAPSTAN BELT and CLUTCH DISK PART (carefully release the stopper on the shaft when removing).

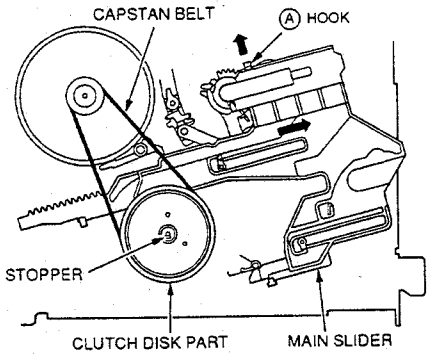


Fig. 3-8

3) Slide the MAIN SLIDER in the direction of the arrow and pull out the MAIN SLIDER while carefully releasing the Ⓐ hook, as shown in Fig. 3-8.

3-3-3. Removal of the TOGGLE GEAR (R) and TOGGLE LEVER (L)

1) First disengage the TOGGLE LEVER (L)'s lever from the GUIDE LEADER (L)'s pin then release the stopper on the TOGGLE LEVER (L), as shown in Fig. 3-9.

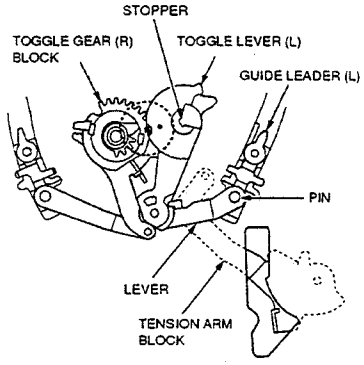


Fig. 3-9

2) Remove the TOGGLE LEVER (L) and TOGGLE GEAR (R).

3-4. REASSEMBLY OF THE LOADING DRIVE BLOCK

3-4-1. Position of the TOGGLE GEAR (R) and TOGGLE LEVER (L)

1) With your fingers, set both the GUIDE LEADERs (R) and (L) and TOGGLE GEAR (R) and TOGGLE LEVER (L) to the unloaded position. Align the mark on the TOGGLE LEVER (L) and ► mark on the TOGGLE GEAR (R), as shown in Fig. 3-9.

NOTE: Before positioning the TOGGLE LEVER (L), confirm that the TENSION ARM is positioned as shown by the dotted line in Fig. 3-9.

3-4-2. Installation of the MAIN SLIDER

1) Position the TENSION ARM LEVER and SUPPLY BRAKE's pin as shown by the dotted line respectively and then slide the MAIN SLIDER a little to the left along the three guides, as shown in Fig. 3-10.

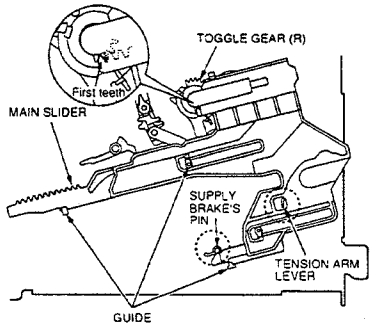


Fig. 3-10

2) Align the TOGGLE GEAR (R) timing so that the first teeth of the MAIN SLIDER align between the first and second tooth of the TOGGLE GEAR (R). Engage the HOOK and the MAIN SLIDER by pressing the MAIN SLIDER (near the HOOK) downwards.
3) Attach the CLUTCH DISK PART and CAPSTAN BELT.

3-4-3. Installation of the CENTER CAM GEAR

1) Fully slide the MAIN SLIDER to the right (unloaded position).

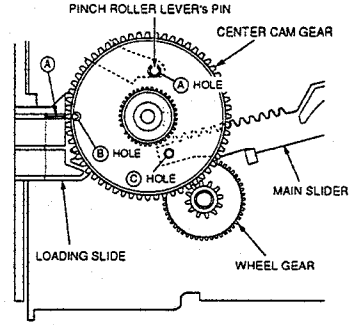


Fig. 3-11

2) Attach the WHEEL GEAR.
3) Attach the CENTER CAM GEAR so that the pin on the PINCH ROLLER LEVER is visible through the Ⓐ hole on the CENTER CAM GEAR as well as the LOADING SLIDE's Ⓐ part aligns with the Ⓑ hole on the CENTER CAM GEAR as shown in Fig. 3-11.

3-4-4. Installation of the LOADING MOTOR and MODE DETECT SWITCH

1) Carefully insert the LOADING MOTOR (with the MODE DETECT SWITCH attached) to the motor holder on the chassis and turn the LOADING MOTOR in the opposite direction of the arrow, shown in Fig. 3-6).
2) Align the hollow teeth of the CENTER CAM GEAR with the trapezoidally shaped teeth of the MODE DETECT SWITCH as shown in Fig. 3-12 then tighten the retaining screw.

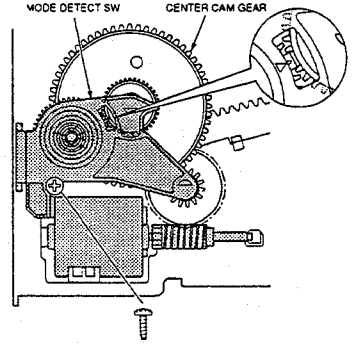


Fig. 3-12

3-5. REPLACEMENT OF THE CAPSTAN MOTOR BLOCK

1) Remove the three retaining screws on the top. Next, turn the mechanism block upside down then remove the CAPSTAN BELT.
2) Turn the CAPSTAN MOTOR BLOCK in the clockwise direction little and remove it from the chassis as shown in Fig. 3-13.

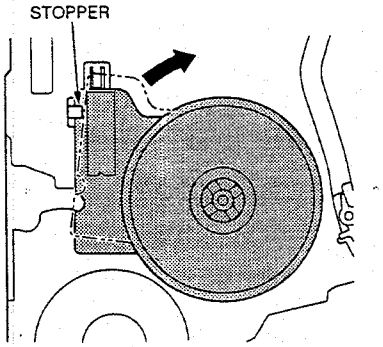


Fig. 3-13

3-6. DRUM MOTOR PCB REPLACEMENT

1) Remove the two retaining screws on the DRUM MOTOR PCB, as shown in Fig. 3-14.

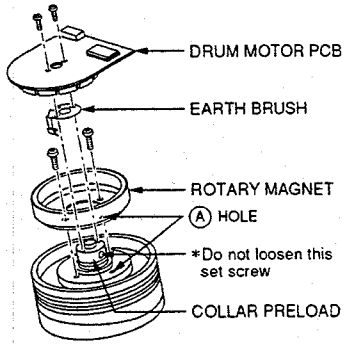


Fig. 3-14

2) If removal of the ROTARY MAGNET is necessary, first remove the EARTH BRUSH then remove the two ROTARY MAGNET retaining screws.
3) When reattaching the ROTARY MAGNET onto the UPPER DRUM of the VIDEO HEAD BLOCK, the Ⓐ hole must align with the Ⓐ hole on the UPPER DRUM.
4) Perform PB switching point adjustment (INFORMATION, PRESETS IN THE TEST MODE step 3)) after replacement of the ROTARY MAGNET or DRUM MOTOR PCB.

3-7. VIDEO HEAD BLOCK REPLACEMENT

3-7-1. VIDEO HEAD BLOCK replacement

※ Can not be replaced Upper Drum itself, replace whole Video Head Block.

1) Remove the DRUM MOTOR PCB, EARTH BRUSH and ROTARY MAGNET (refer to step 3-6).
2) Remove the three retaining screws on the bottom.

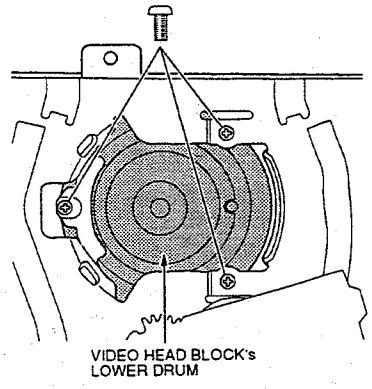


Fig. 3-15

NOTE:

1) Because the video head tips are fragile, take special care when handling the VIDEO HEAD BLOCK.
2) Height precision is required for proper performance. the following points should be noted when replacing the VIDEO HEAD BLOCK.
   a) Do not loosen the set screws on the COLLAR PRELOAD (refer to Fig. 3-14).
   b) Before replacement, use alcohol to clean both surfaces where the LOWER DRUM touches the chassis.
   c) Tighten the three retaining screws alternately and gradually.

3-7-2. After replacement

After replacement, the following adjustments are necessary for proper performance.

1) GUIDE LEADER height adjustment (MECHANICAL ADJUSTMENT 4-2-5).
2) CONTROL HEAD phase adjustment (MECHANICAL ADJUSTMENT 4-3).
3) PB switching point adjustment (INFORMATION, PRESETS IN THE TEST MODE step 3)).

IV. MECHANICAL ADJUSTMENT

4-1. BACK TENSION CONFIRMATION

1) Using a video cassette tape which you no longer need, remove both tape reels and the tape protection cover. Next, cover the video cassette's left and right detection holes with black adhesive tape.
2) Engage the playback mode using the tapeless cassette.
3) Confirm the distance between the three marks (line) on the TENSION ARM and the reference BOSS on the MECHA. CHASSIS so that the center of the reference BOSS aligns with the center line on the TENSION ARM, as shown in Fig. 4-1.
4) If the result is not satisfactory, eject the cassette tape and adjust the back tension with a flat head screwdriver, as shown in Fig. 4-1, until a satisfactory result is achieved.

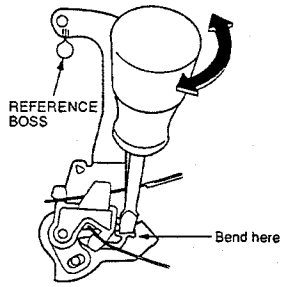


Fig. 4-1

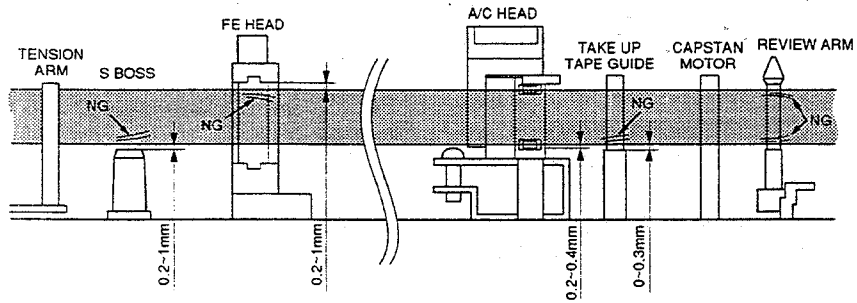


Fig. 4-3

3) Connect an oscilloscope to the AUDIO OUT terminal and play back the test tape TF-526HH (part No.: AT-751788).
4) Confirm that the output level is between 30 ~ 200 mVp-p (optimum value is 100 mVp-p). If the result is not satisfactory, finely adjust the Ⓐ and Ⓑ screws alternately until a satisfactory result is achieved.

IMPORTANT:

1) In order to prevent the A/C HEAD BASE from being distorted, and to keep the A/C HEAD straight up, always turn the head azimuth adjustment Ⓑ screw equally in the opposite direction to the Ⓐ screw.
2) Never turn the Ⓐ screw in the clockwise direction too much as it will cause the A/C HEAD BASE to bend.

4-2. TAPE TRANSPORT ADJUSTMENTS

NOTE: The following adjustments are required only when an irregularity is found, since these adjustments are precisely set at the factory.

4-2-1. Tape curl adjustment at the TAKE UP TAPE GUIDE

1) Play back a recorded tape which is no longer needed.
2) Turn the Ⓐ screw on the A/C HEAD BLOCK until the edge of the tape barely touches the lower part of the TAKE UP TAPE GUIDE, without any curl or wrinkle. (Turning the Ⓐ screw in the clockwise direction moves the tape downwards and counterclockwise direction moves the tape upwards.

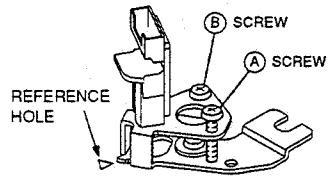


Fig. 4-2

3) Once the Ⓐ screw is adjusted, A/C HEAD azimuth adjustment is required for proper performance. (Refer to 4-2-4, A/C HEAD azimuth adjustment)
4) To make the adjustment easier, prepare a cassette tape with the protection cover removed.

4-2-2. Tape curl adjustment at the S-BOSS or FULL TRACK ERASE HEAD

1) Play back the protection cover-less cassette tape which you prepared.
2) Confirm that the edge of the tape is not touching the S-BOSS or upper flange of the FULL TRACK ERASE HEAD, as shown in Fig. 4-3. If the result is not satisfactory, bend the neck part of the TENSION ARM in the Ⓐ or Ⓑ direction slightly until a satisfactory result is achieved.

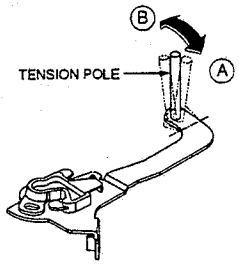


Fig. 4-4

3) Set the VCR to the "CUE" or "REVIEW" mode and confirm that the edge of the tape is not touching the S-BOSS or upper flange of the FULL TRACK ERASE HEAD. If the result is not satisfactory, readjust the TENSIONARM again.

4-2-3. CUE/REVIEW check

1) Play back the end of an E-240 tape and set the unit to the REVIEW mode by pressing the REW button.

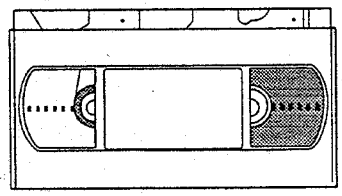


Fig. 4-5

2) After 3 seconds, confirm there is no curl or wrinkle among the TAKE UP TAPE GUIDE, CAPSTAN SHAFT and REVIEW ARM. If the result is not satisfactory, readjust the Ⓐ and Ⓑ screws until a satisfactory result is achieved.
3) Play back the beginning of an E-240 tape and this time set the unit to the CUE mode by pressing the F.FWD button.

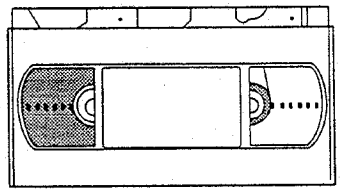


Fig. 4-6

4) Confirm there is no curl or wrinkle among the TAKE UP TAPE GUIDE, CAPSTAN SHAFT and REVIEW ARM. If curl or wrinkle occurs, slightly turn the Ⓐ screw until it disappears.
5) Set the unit to the REVIEW mode again. Then confirm that there is no curl or wrinkle near the TAKE UP TAPE GUIDE. (A small gap may appear after this adjustment, but this is allowable.)

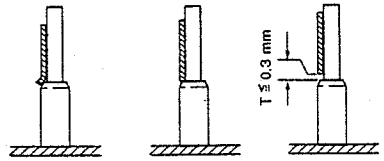


Fig. 4-7

NOTE:
1) If the result is not satisfactory, repeat the adjustment until a satisfactory result is obtained.
2) Always play an undamaged tape to obtain satisfactory adjustment.
3) Because an E-240 tape can be damaged easily due to its thinness, pre-adjustment with an E-180 tape is recommendeed.

4-2-4. A/C HEAD azimuth adjustment

1) Connect an AC milli-voltmeter or an oscilloscope to the AUDIO OUT terminal on the rear panel.
2) Play back the reference tape TF-530RFS (Part No.: AT-751775).
3) Press the "AUDIO MONITOR" button on the remote control repeatedly and choose the linear (normal) audio playback.
4) Adjust the Ⓑ screw to obtain the maximum audio output (Refer to Fig. 4-2).

4-2-5. GUIDE LEADER height adjustment

1) Slightly loosen the set screw at the lower part of the GUIDE LEADER's (L) and (R) so that the GUIDE LEADER can be adjusted with reasonable tightness.

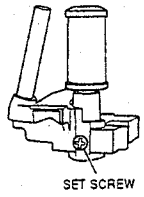


Fig. 4-8

2) Play back the reference tape TF-530RFS.
3) Connect an oscilloscope's CH-1 to the TP501 (V. ENVE) on the MAIN PCB and CH-2 to TP502 (V. SWP) for triggering. (Refer to "video switching point preset" on page 6 for location.)
4) Press the tracking button on the remote control to obtain the maximum RF envelope level.

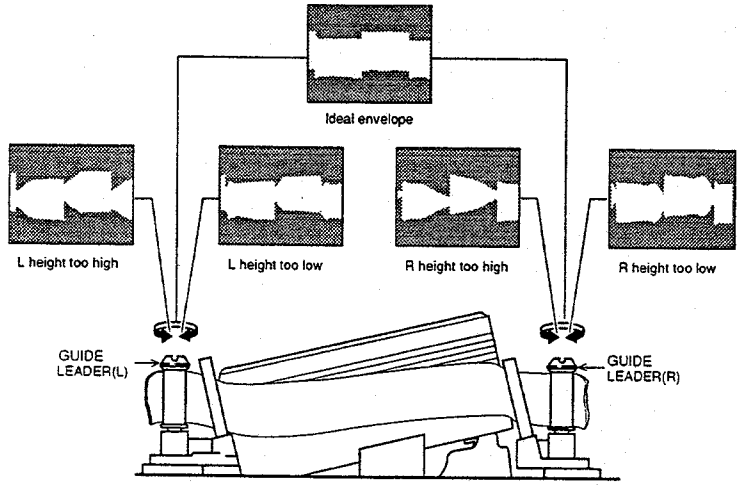


Fig. 4-9

5) Turn both the GUIDE LEADER's heads alternately with a flat head (—) screwdriver to obtain a flat RF envelope as the ideal envelope, as shown in Fig. 4-9.
6) After adjustment is completed, tighten the loading leader set screws.

4-3. A/C HEAD PHASE ADJUSTMENT

1) Connect an oscilloscope's CH-1 to the TP501 (V. ENVE) on the MAIN PCB and CH-2 to TP502 (V. SWP) for triggering. (Refer to "video switching point preset" on page 6 for location.)
2) Play back the reference tape TF-530RFS (Part No. : AT-751775).
3) Press the ">" or "<" TRACKING button on the remote control until the "X" mark can be seen in the center position of the tracking range on the TV screen as shown in Fig. 4-10.
4) Loosen the © screw slightly so that the A/C HEAD BASE can be moved with reasonable tightness.
5) Insert a philips type screwdriver into the Ⓐ hole on the chassis through the A/C HEAD BASE's wane.
6) Move the A/C HEAD BASE by moving the screwdriver in the direction of the arrow, as shown in Fig. 4-11, to obtain the maximum RF output, then tighten the © screw. Although there are a few points at which the RF output becomes maximum, the pointed head of the A/C HEAD BASE must be positioned as close to the reference hole as possible.
7) Eject the tape and then re-insert it and play it back again. Confirm that the RF output is maximum after the auto tracking control has been activated. Next, press the "<" or ">" button on the remote control alternately and confirm that the RF output is maximum at the center tracking position. If the result is not satisfactory, repeat steps 2) to 6). (This adjustment is very important as this affects the interchangeability of recorded tapes.)

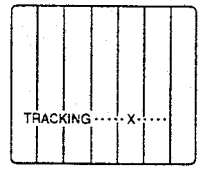


Fig. 4-10

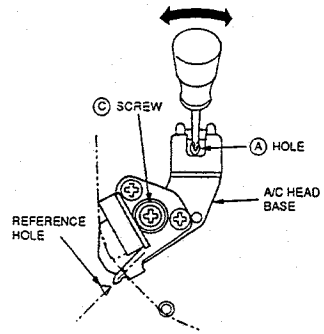


Fig. 4-11

V. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List or Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

Ref. No.	Part. No.	Description
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in the figure.

b) PC Board

2. MAIN PC BOARD

Ref. No.	Part. No.	Description
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination
[A] : AAL (U.S.A) [S] : SAA (Australia)
[B] : BEAB (England) [U] : U/T (Universal Area)
[C] : CSA (Canada)
[E] : CEE (Europe) [V] : VDE (Germany)
[J] : JPN (Japan) [Y] : Custom

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	BL-433561N4	ARM LOADING BLK
2	BL-433609N3	ARM PINCH BLK
3	BL-433538N3	ARM TENSION BLK
4	BM-433693N1	LOADING MOTOR PART
5	BM-433176N	MOTOR F2QTB24
6	BM-433198N	MOTOR F20EL60
7	⚠ BT-435636N	TRANS POW V1252-M
8	BV-433522N1	GUIDE LEADER(L)BLK
9	BV-433534N1	GUIDE LEADER(R)BLK
10	BV-433615N2	HOLDER CASSETTE BLK
11	BV-434180N	RF CONVERT.YAA21-1108G G/K EDG [EDG]
12	BV-435474N	RF CONVERT.YAA21-1121G EA [EA]
13	BV-435423N2	RF CONVERTER MDLP3E008C G/I/K [SE,EKAND NONEAKAI BRAND MODELS]
14	BV-429839N	RF CONVERTER YAA21-1045H G EO [EOH,EOG]
15	BV-429901N	RF CONVERTER YAA41-0081G SECAM [SEG]
16	BV-V1234D430J	TL DRUMBLK(SERVICE)NX-6PAL [EXCEPT SEG]
17	BV-V1234D430K	TL DRUMBLK(SERVICE)NX-6SEG [SEG]
18	ED-390011N	D LED GL451 INFRARED
19	ED-390012N	D LED GL4800 INFRARED
20	ED-435478N	D SCHOTTKY ERC81-004J10 S12
21	ED-426202N	D SCHOTTKY ERC84-009L9 S15
22	ED-418624N	D SCHOTTKY RK39LF-B2 S12
23	ED-428162N	D SCHOTTKY 1S30-E T26
24	ED-427506N	D SILI.ERA22-10T26 1000/0.5A
25	ED-416930N	D SILICON C.MA77-TX TXT08E
26	ED-432744N	D SILICON C.MC2840-1 T1T08E
27	ED-307573N	D SILICON H 1SS131T-77 T26
28	ED-428420N	D SILICON RL103F-N02T05 200/1A
29	ED-403280N	D SILICON 1N4002N02 T05 100/1A
30	⚠ ED-418622N	D SILICON 1N4006N02 T05 800/1A
31	ED-427173N	D VARACTOR MA840-B(TA) T26
32	ED-432743N	D ZENER C.RD5.6MB2-T1 T1T08E
33	ED-434522N	D ZENER H MTZJ10C T26
34	ED-425442N	D ZENER H MTZJ13A T26 [EXCEPT SE,EA,SEG,G770EK-N]
35	ED-435259N	D ZENER H MTZJ13B T26
36	⚠ ED-422420J	D ZENER H MTZJ20C T26
37	ED-422519N	D ZENER H MTZJ4.3B T26
38	ED-418820N	D ZENER H MTZJ5.1C T26
39	ED-428014N	D ZENER H MTZJ6.8A T26 [SEG]
40	ED-433962N	D ZENER H MTZJ7.5C T26
41	ED-427719N	D ZENER H MTZJ9.1A T26
42	EE-435224N	TV TUNER TELB1-016A [G770EK-N]
43	EE-435227N	TV TUNER TELE1-012A [EA]
44	EE-435225N	TV TUNER TELE4-045A [EXCEPT EA,SEG,G770EK-N]
45	EE-435226N	TV TUNER TELE4-049A [SEG]
46	⚠ EF-394702N	FUSE 218 TIME 250V 2.00A
47	EI-389644N	IC BA403 [EA,EOH-D,EOG,VCR3087CE]
48	EI-385995N	IC BA7755A
49	EI-435451N	IC BU4053BCF-T1 FPT1T32P [EOH-DN,SEG]
50	EI-435710N	IC LA70020M-TRM FPRT24E
51	EI-428406N	IC LA7356M-TRM FPRT12E [EDG]
52	EI-432784N	IC LA7440M [EDG]
53	EI-432781N	IC LA7447BM [EXCEPT EDG]
54	EI-432759N	IC LA7577N
55	EI-390053N	IC LA7910 [EXCEPT SE,G770EK-N]
56	EI-403233N	IC LB1641
57	EI-433063N	IC LC74763-9143
58	EI-435252N	IC LC89977M-TE-R FPRT16E [EXCEPT EDG]
59	EI-435272N	IC LC89978M-TE-R FPRT16E [EDG]
60	EI-429889N	IC MM1112XFBE FPBT12E [SEG]
61	EI-435190N	IC MM1113XFBE FPBT12E [EA,EDG,G760EOH-D]
62	EI-435472N1	IC M37774M9H270GP EXHSYSL2 [SEG]
63	EI-437206N	IC M37774M9H275GP EXHSYN1 [NONE AKAI BRAND MODELS]
64	EI-435471N2	IC M37774M9H276GP EXHSYPL3 [EXCEPT SEG AND NONE AKAI BRAND MODELS]
65	EI-368809N	IC M51496P
66	EI-810965J	IC NJM4558L-D
67	EI-353750N	IC NJM4558MB T1 T1T32P
68	EI-435187N	IC S-806H-Z TO-92 T05
69	EI-433060N	IC SAA7283GP
70	EI-428403N	IC SDA5649X FP T24E [EXCEPT EA,EDG,EOH-N[S], G760EOH-D/DN]
71	EI-435189N	IC STV6400D-TR FPTRT24E [EXCEPT EA,EDG,G760EOH-D]
72	EI-422128N	IC TA76431S T05
73	EI-416611N	IC TDA8417 [EA,EOH-D,EOG,VCR3087CE]
74	EI-433062N	IC TDA9614H
75	EI-394868N	IC UPC1820CA [SEG]
76	EI-425646N	IC UPC1823ACU
77	EI-337530N	IC UPC574J
78	EI-437175N	IC UPD78043FGF-024-3B9EXHDSPL1 [AKAI BRAND MODELS]
79	EI-437213N	IC UPD78043FGF-028-3B9EXHDSPN1 [NONE AKAI BRAND MODELS]
80	EI-431275N	IC 24LC04BT/SN FP T12E
81	EI-394870N	OSC CE CSB500F23 504.5KHZ [SEG]
82	EI-368829N	OSC CE CSB512P
83	EI-413047N	OSC CE CST5.00MGW 5.000MHZ
84	EI-416872N	OSC X'TAL APS1004A 17.734475MH
85	EI-425240N	OSC X'TAL APS1011A 16.000MHZ
86	EI-433914N	OSC X'TAL APS1026 8.192MHZ
87	EI-425185N	OSC X'TAL ASP1006 10.000MHZ [EA,EOH-D,EOG,VCR3087CE]
88	EI-431323N	OSC X'TAL C-002RX 32.768KHZ
89	EI-431006N	OSC X'TAL HC-49U GX 3.579545MH [EDG]
90	EI-405660N	OSC X'TAL HC-49U 4.433619MHZ [EXCEPT EDG]
91	EM-429960N	IND FL FIP10CCM7A CHARACTER [EA,SE,EDG,EOH-N[S]]
92	EM-435810N	IND FL FV744G CHARACTER [EXCEPT EA,SE,EDG,EOH-N[S],SEG]
93	EM-435811N	IND FL FV745G CHARACTER [SEG]
94	EO-432745N	OSC CE CSB500F32 500KHZ
95	⚠ ER-408829N	R FUSE V T05 RF25SCVTP1/4WR11K
96	⚠ ER-418648N	R FUSE V T05 RF25SCVTP1/4WR24K
97	⚠ ER-400729N	R FUSE V T05 RF25SCVTP1/4WR47K
98	⚠ ER-410380N	R FUSE V T05 RF25SCVTP1/4WR91K [SEG]
99	⚠ ER-435803N	R FUSE V T05RF25SVTP 1/4W 8R2J
100	ES-433183N	SW MICRO MPU10390MLB0
101	ES-433595N	SW MODE SELECTOR MMS00340ZMBO
102	ES-414593N	SW TACT SOR-142HS T05
103	ET-428361N	DETECTOR GP1U281X
104	⚠ ET-422113N	PHOTO COUPLER PS2561-1-V
105	ET-433976N	TR C.DTA114TKA T146T08E
106	ET-437201N	TR C.DTA143TKA T146T08E

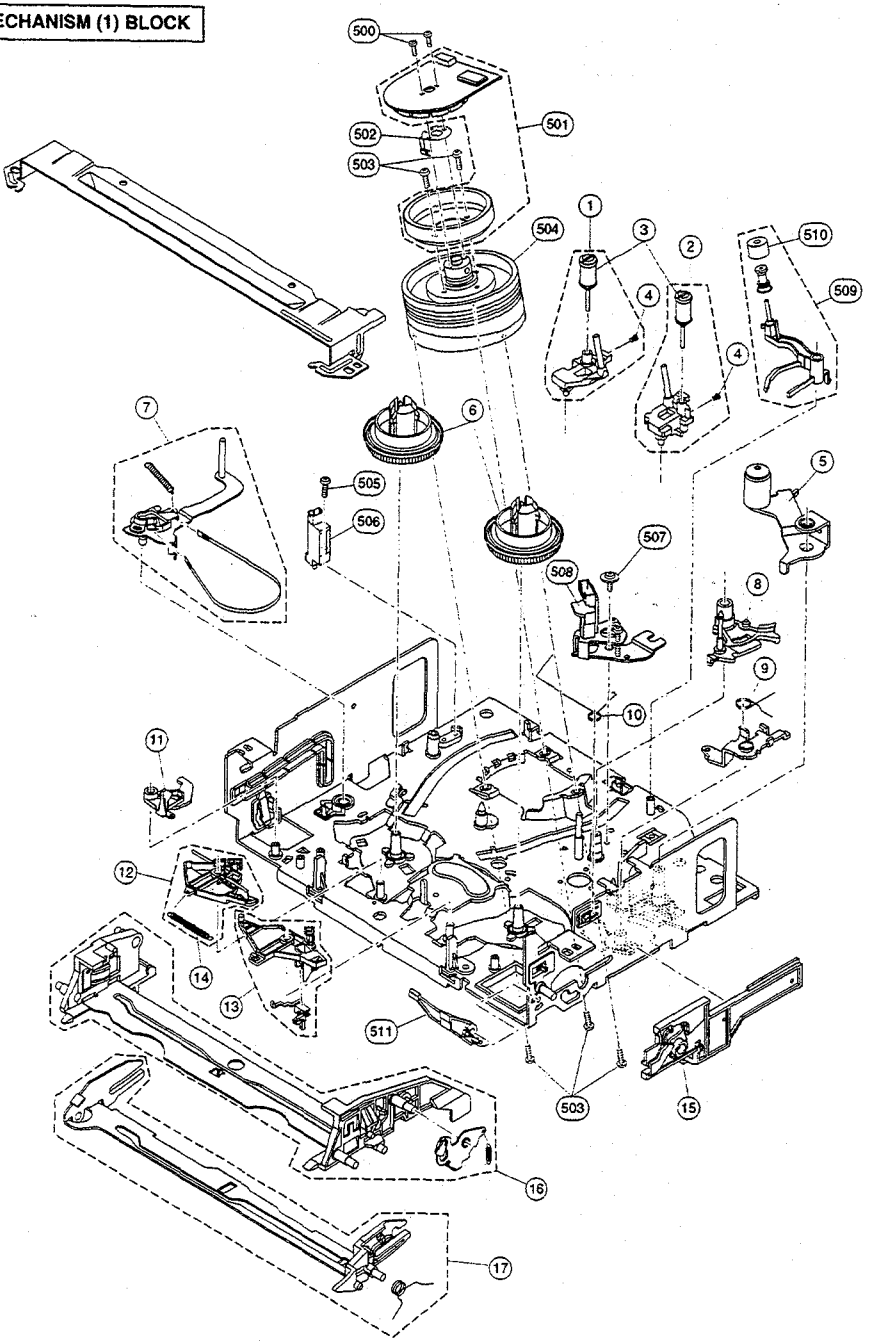
Ref. No.	Part No.	Description
107	ET-429896N	TR C,DTA144EKA T146T08E [SEG]
108	ET-429899N	TR C,DTA144TKA T146T08E [SEG]
119	ET-430868N	TR C,DTC114EKA T146T08E [SEG]
110	ET-433072N	TR C,DTC114TKA T146T08E
111	ET-428400N	TR C,DTC143EKA T146T08E
112	ET-432937N	TR C,DTC143TKA T146T08E
113	ET-429897N	TR C,DTC144EKA T146T08E [EA,SE,EK AND NONE AKAI BRAND MODELS]
114	ET-433071N	TR C,DTC144TKA T146T08E [EXCEPT EA,SE,G770EK-N]
115	ET-421999N	TR C,UN221D TXT08E
116	ET-416932N	TR C,2SB709A R,S TXT08E [EA,SE,G770EK-N]
117	ET-432740N	TR C,2SC2480 T,S TXT08E
118	ET-428373N	TR C,2SD2318 E,U,V FPTLT16E
119	ET-416933N	TR C,2SD601A R,S TXT08E [SEG]
120	ET-366753N	TR DTA114ES T05
121	ET-364291N	TR DTA144ES T05
122	ET-364023N	TR DTC114ES T05
123	ET-364492N	TR DTC114TS T05
124	ET-364645N	TR DTC143ES T05
125	ET-368786N	TR DTC143ZS T05 [EXCEPT SEG]
126	ET-361961N	TR DTC144ES T05
127	ET-390010N	TR PHOTO PT4800
128	ET-390009N	TR PHOTO PT493F
129	ET-421934N	TR UN411D T05
130	ET-392746N1	TR 2SA933AS R,S T05 [EA,SE,EK AND NONE AKAI BRAND MODELS]
131	ET-433918N	TR 2SB1240 Q,R T05
132	ET-404498N	TR 2SB1306 Q,R T05
133	ET-422154N	TR 2SB1426 Q,R T05 [SEG]
134	ET-392663N	TR 2SC1740S R,S T05 [EXCEPT EA,SE,G770EK-N]
135	ET-414816N	TR 2SC2668 Y T05
136	ET-368108N	TR 2SC2926S P,Q T05 [SEG]
137	⚠ ET-428371N	TR 2SC4908
138	⚠ ET-401091J	TR 2SD2144S U,V,W T05
139	ET-416697N	TR 2SD2396 J,K
140	HE-433151N	HEAD E VTR-1X2ERS11-108
141	HR-435698N2	HEAD ASSY HVUXA1003A
142	MB-433627N	BELT CAPSTAN (SG)
143	MI-433579N4	ARM IDLER PART
144	MI-433597N8	DISK CLUTCH PART
145	ML-433604N4	ARM REVIEW PART
146	ML-433586N	ARM SLOW BRAKE PART
147	ML-433576N	LEVER TOGGLE(L)
148	ML-433553N1	MAIN BRAKE(L)BLK
149	ML-433546N1	MAIN BRAKE(R)BLK
150	ML-433590N	SLIDE MAIN
151	MT-433537N1	DISK REEL
152	MZ-433591N	GEAR CAM CENTER
153	MZ-433578N	GEAR F/R
154	MZ-433568N	GEAR TOGGLE(R)BLK
155	MZ-433589N	GEAR WHEEL

2. MECHANISM (1) BLOCK

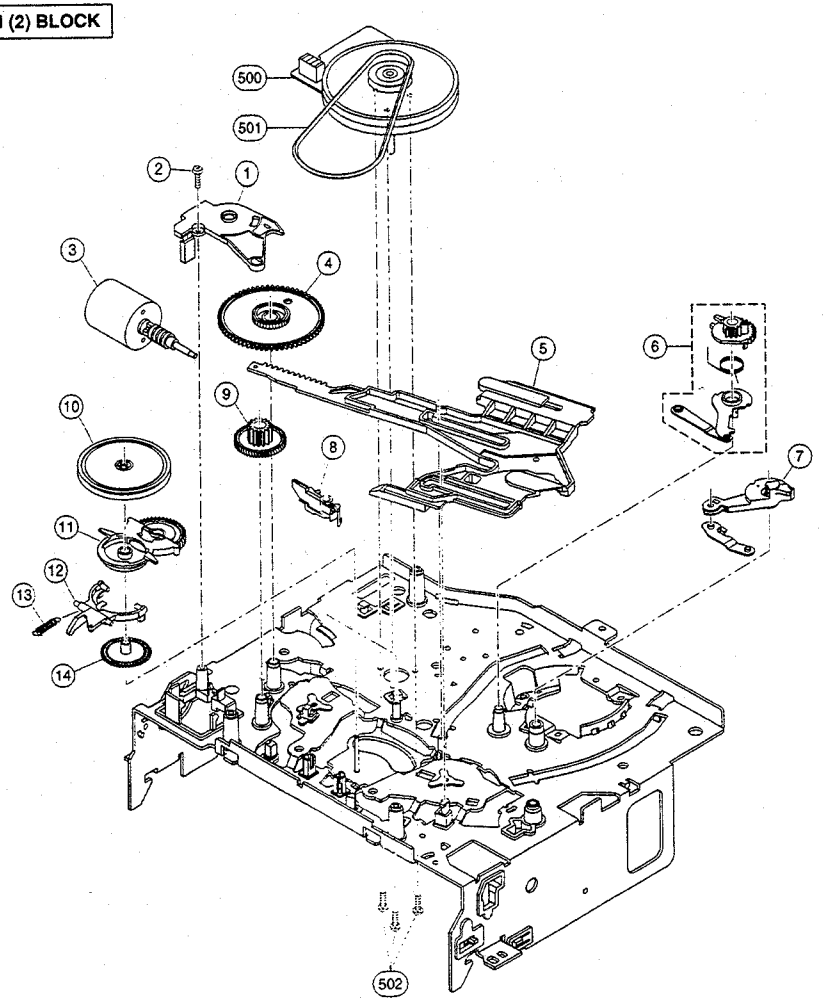
Ref. No.	Part No.	Description
1	BV-433522N1	GUIDE LEADER(L)BLK
2	BV-433534N1	GUIDE LEADER(R)BLK
3	VT-433526N	GUIDE ROLLER PART
4	ZS-418616J	PAN20X2.8STL CMT PS1 LEADER
5	BL-433609N3	ARM PINCH BLK
6	MT-433537N1	DISK REEL
7	BL-433538N3	ARM TENSION BLK
8	ML-433604N4	ARM REVIEW PART
9	ZG-433559N	SP TORSION PINCH
10	ZG-433608N3	SP TORSION REVIEW
11	ML-433560N	LEVER DETECTOR
12	ML-433553N1	MAIN BRAKE(L)BLK
13	ML-433546N1	MAIN BRAKE(R)BLK
14	ZG-433557N	SP PULL M.B
15	ML-433567N1	SLIDE LOADING
16	BV-433615N2	HOLDER CASSETTE BLK
17	BL-433561N4	ARM LOADING BLK
18	BB-433174N	MECHA BASE BLK NX
500	ZS-417161N	PAN23X04STL CMT (SG)
501	BM-433198N	MOTOR F20EL60
502	MZ-433904N	EARTH BRUSH PART
503	ZS-479474N	PAN26X05STL CMT (SG)
504-A	BV-V1234D430J	TL DRUMBLK(SERVICE)NX-6PAL [EXCEPT SEG]
504-B	BV-V1234D430K	TL DRUMBLK(SERVICE)NX-6SEG [SEG]
505	ZS-403887N	PT BID26X12STL CMT (SG)
506	HE-433151N	HEAD E VTR-1X2ERS11-108
507	ZS-344754N	ST PAN30X06STL CMT C080 (SG)
508	HR-435698N2	HEAD ASSY HVUXA1003A
509	BL-433689N	HEAD CLEANER BLK (SG) [EXCEPT SE,EK,VCR1937,VCR4087]
510	HZ-417681N	ROLLER HEAD CLEANER(2) (SG) [EXCEPT SE,EK,VCR1937,VCR4087]
511	ML-433628N	ARM MASK OPENER (SG)

The parts reference numbered 500 to 511 are not supplied with the "MECHA BASE BLK NX".

NOTE :
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.



MECHANISM (2) BLOCK



3. MECHANISM (2) BLOCK

Ref. No.	Part No.	Description
1	ES-433595N	SW MODE SELECTOR MMS00340ZMBO
2	ZS-389950N	PT BID26X10STL CMT (SG)
3	BM-433593N1	LOADING MOTOR PART
4	MZ-433591N	GEAR CAM CENTER
5	ML-433590N	SLIDE MAIN
6	MZ-433568N	GEAR TOGGLE(R)BLK
7	ML-433576N	LEVER TOGGLE(L)
8	ML-433586N	ARM SLOW BRAKE PART
9	MZ-433589N	GEAR WHEEL
10	MI-433597N8	DISK CLUTCH PART
11	MI-433579N4	ARM IDLER PART
12	ML-433584N	ARM COUPLING
13	ZG-428605N	SP PULL COUPLING
14	MZ-433578N	GEAR F/R

Ref. No.	Part No.	Description
500	BM-433176N	MOTOR F2QTB24
501	MB-433627N	BELT CAPSTAN (SG)
502	ZS-201275N	ST PAN26X06STL CMT (SG)

The parts reference numbered 500 to 502 are not supplied with the "MECHA BASE BLK NX".

NOTE :
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

4. P.C. BOARD BLOCK

Ref. No.	Part No.	Description
1-A	BA-V1252V600A	NS PC MAIN BLK G765EA-D
1-B	BA-V1252V600B	NS PC MAIN BLK G760EDG
1-C	BA-V1252V600C	NS PC MAIN BLK G770EK-N
1-D	BA-V1252V600D	NS PC MAIN BLK G771EK-N
1-E	BA-V1252V600E	NS PC MAIN BLK G760EOH-D
1-F	BA-V1252V600F	NS PC MAIN BLK G765EOH-D
1-G	BA-V1252V600G	NS PC MAIN BLK G770EOH-N(S)
1-H	BA-V1252V600H	NS PC MAIN BLK G770EOH-N(E)
1-I	BA-V1252V600J	NS PC MAIN BLK G760EOH-DN
1-J	BA-V1252V600K	NS PC MAIN BLK G765EOH-DN
1-K	BA-V1252V600L	NS PC MAIN BLK G770EOG-D [EOG]
1-L	BA-V1252V600M	NS PC MAIN BLK G760SEG-N [SEG]
1-M	BA-V1259V600A	NS PC MAIN BLK VCR3087CE [VCR3087CE]
1-N	BA-V1259V600B	NS PC MAIN BLK VCR3087NE [VCR3087NE,VCR1937,VCR4087, VCR6857]
2-A	BA-F5002V010A	NS EX VIF-HIFI BLKHIFI-EA [EA]
2-B	BA-F5002V010B	NS EX VIF-HIFI BLKHIFI-EK-N [SE,G770EK-N]
2-C	BA-F5002V010D	NS EX VIF-HIFI BLKHIFI-EOG [EOH-D,EOG,VCR3087CE]
2-D	BA-F5002V010E	NS EX VIF-HIFI BLKHIFI-EOH-N [EOH-N/DN,VCR3087NE,VCR1937, VCR4087,VCR6857]
2-E	BA-F5002V010G	NS EX VIF-HIFI BLKHIFI-ES-N [G771EK-N]
2-F	BA-F5002V030A	NS EX VIF-EDG BLK NOR-EDG [EDG]
2-G	BA-F5002V020B	NS EX VIF-SEG BLK HIFI-SEG-N [SEG]
3-A	BA-V1244V640A	NS PC D-NICAM BLK G2DPL EK-N [SE,EK]
3-B	BA-V1244V640B	NS PC D-NICAM BLK G2DPL EOH-DN [EOH-DN]
3-C	BA-V1244V640C	NS PC D-NICAM BLK G2DPL EOH-N [EOH-N,VCR3087NE,VCR1937,VCR4087, VCR6857]
3-D	BA-V1244V640D	NS PC D-NICAM BLK G2DPL SEG-N [SEG]

PC MAIN BLK CONSISTS OF FOLLOWING P.C. BOARDS.
- MAIN P. C. BOARD
- VIF P. C. BOARD

5. MAIN P.C. BOARD

Ref. No.	Part No.	Description
C201	⚠ EC-422101N1	C MMY V CUT MKTR40 104M 275AC
C202	⚠ EC-422101N1	C MMY V CUT MKTR40 104M 275AC
C204	⚠ EC-435500N	C CE V CUT CS11 E222M 250AC [SE,EK]
C205	⚠ EC-435500N	C CE V CUT CS11 E222M 250AC
C206	⚠ EC-435500N	C CE V CUT CS11 E222M 250AC
C207	⚠ EC-435500N	C CE V CUT CS11 E222M 250AC [SE,EK]
C208	⚠ EC-435500N	C CE V CUT CS11 E222M 250AC
C209	⚠ EC-435500N	C CE V CUT CS11 E222M 250AC
C210	EC-432918N	C EC V CUT YK 330M 400.0DC
C211	EC-428385N	C MMY V T05 MMCV 473K 400DC
C212	EC-418759N	C CE V T05 CC45 SL121K 1000DC
C430	⚠ EC-416655N	C DBL LAYER T05 FM0H473Z 5.5DC
D1	ED-307573N	D SILICON H 1SS131T-77 T26
D2	ED-307573N	D SILICON H 1SS131T-77 T26
D3	ED-307573N	D SILICON H 1SS131T-77 T26 [EXCEPT SE,EA,G770EK-N]
D4-A	ED-425442N	D ZENER H MTZJ13A T26 [EXCEPT SE,EA,SEG,G770EK-N]
D4-B	ED-428014N	D ZENER H MTZJ6.8A T26 [SEG]
D5	ED-307573N	D SILICON H 1SS131T-77 T26 [EXCEPT SE,EA,G770EK-N]
D8	ED-307573N	D SILICON H 1SS131T-77 T26 [SEG]
D9	ED-307573N	D SILICON H 1SS131T-77 T26 [SEG]
D11	ED-307573N	D SILICON H 1SS131T-77 T26 [SEG]
D12	ED-307573N	D SILICON H 1SS131T-77 T26 [SE,EKAND NONE AKAI BRAND MODELS]
D13	ED-307573N	D SILICON H 1SS131T-77 T26 [SE,EKAND NONE AKAI BRAND MODELS]
D201	⚠ ED-418622N	D SILICON 1N4006N02 T05 800/1A
D202	⚠ ED-418622N	D SILICON 1N4006N02 T05 800/1A
D203	⚠ ED-418622N	D SILICON 1N4006N02 T05 800/1A
D204	⚠ ED-418622N	D SILICON 1N4006N02 T05 800/1A
D205	ED-427506N	D SILI.ERA22-10 T26 1000/0.5A
D207	ED-307573N	D SILICON H 1SS131T-77 T26
D220	ED-428162N	D SCHOTTKY 1S30-E T..
D221	ED-428420N	D SILICON RL103F-N02T05 200/1A
D222	ED-418624N	D SCHOTTKY RK39LF-B2 S12
D223	ED-426202N	D SCHOTTKY ERC84-009L9 S15
D224	ED-435478N	D SCHOTTKY ERC81-004J10 S12
D225	ED-428420N	D SILICON RL103F-N02T05 200/1A
D227	⚠ ED-422420J	D ZENER H MTZJ20C T26
D228	ED-307573N	D SILICON H 1SS131T-77 T26
D229	ED-418820N	D ZENER H MTZJ5.1C T26
D231	ED-307573N	D SILICON H 1SS131T-77 T26
D232	ED-418820N	D ZENER H MTZJ5.1C T26
D233	ED-307573N	D SILICON H 1SS131T-77 T26
D234	ED-418820N	D ZENER H MTZJ5.1C T26
D236	ED-435259N	D ZENER H MTZJ13B T26
D237	ED-434522N	D ZENER H MTZJ10C T26
D238	ED-403280N	D SILICON 1N4002N02 T05 100/1A
D239	ED-403280N	D SILICON 1N4002N02 T05 100/1A
D240	ED-403280N	D SILICON 1N4002N02 T05 100/1A
D241	ED-403280N	D SILICON 1N4002N02 T05 100/1A
D242	⚠ ED-422420J	D ZENER H MTZJ20C T26
D301	ED-307573N	D SILICON H 1SS131T-77 T26
D302	ED-307573N	D SILICON H 1SS131T-77 T26
D401	ED-390012N	D LED GL4800 INFRARED
D402	ED-390012N	D LED GL4800 INFRARED
D403	ED-390011N	D LED GL451 INFRARED
D404	ED-403280N	D SILICON 1N4002N02 T05 100/1A
D405	ED-403280N	D SILICON 1N4002N02 T05 100/1A
D406	ED-403280N	D SILICON 1N4002N02 T05 100/1A
D407	ED-403280N	D SILICON 1N4002N02 T05 100/1A
D409	ED-433962N	D ZENER H MTZJ7.5C T26
D410	ED-307573N	D SILICON H 1SS131T-77 T26
D411	ED-307573N	D SILICON H 1SS131T-77 T26
D412	ED-422519N	D ZENER H MTZJ4.3B T26
D414	ED-307573N	D SILICON H 1SS131T-77 T26 [EDG]

Ref. No.	Part No.	Description
D415	ED-307573N	D SILICON H 1SS131T-77 T26 [EDG]
D501	ED-307573N	D SILICON H 1SS131T-77 T26
D552	ED-307573N	D SILICON H 1SS131T-77 T26
D601	ED-307573N	D SILICON H 1SS131T-77 T26
D602	ED-307573N	D SILICON H 1SS131T-77 T26
D603	ED-307573N	D SILICON H 1SS131T-77 T26
D605	ED-307573N	D SILICON H 1SS131T-77 T26 [SEG]
D821	ED-307573N	D SILICON H 1SS131T-77 T26 [EXCEPT EA]
FL101	EH-394947N	FILTER CE SFT5.74MA [EA,EOH-D,EOG,VCR3087CE]
FL102	EH-394948N	FILTER CE SFT5.5MA [EA,EOH-D,EOG,VCR3087CE]
FL301	EO-418829N	COIL OSC1 6062 70.0KHZ
FL601	EH-433119N	FILTER LC LP TZV-76C [SEG]
FL871	EO-422362N	COIL TUN1 V1184-049B VCO
FR201	⚠ ER-435803N	R FUSE V T05RF25SVTP 1/4W 8R2J
FR202	⚠ ER-408829N	R FUSE V T05 RF25SCVTP1/4WR11K
FR203	⚠ ER-400729N	R FUSE V T05 RF25SCVTP1/4WR47K
FR204	⚠ ER-410380N	R FUSE V T05 RF25SCVTP1/4WR91K [SEG]
FR205	⚠ ER-408829N	R FUSE V T05 RF25SCVTP1/4WR11K
FR401	⚠ ER-418648N	R FUSE V T05 RF25SCVTP1/4WR24K
FR402	⚠ ER-400729N	R FUSE V T05 RF25SCVTP1/4WR47K
FR403	⚠ ER-418648N	R FUSE V T05 RF25SCVTP1/4WR24K
F201	⚠ EF-394702N	FUSE 218 TIME 250V 2.00A
IC1	EI-337530N	IC UPC574J
IC2	EI-390053N	IC LA7910 [EXCEPT SE,G770EK-N]
IC101	EI-389644N	IC BA403 [EA,EOH-D,EOG,VCR3087CE]
IC102	EI-389644N	IC BA403 [EA,EOH-D,EOG,VCR3087CE]
IC103	EI-416611N	IC TDA8417 [EA,EOH-D,EOG,VCR3087CE]
IC201	EI-422128N	IC TA76431S T05
IC401-A	EI-435471N2	IC M37774M9H276GP EXHSYPL3 [EXCEPT SEG AND NONE AKAI BRAND MODELS]
IC401-B	EI-435472N1	IC M37774M9H270GP EXHSYSL2 [SEG]
IC401-C	EI-437206N	IC M37774M9H275GP EXHSYN1 [NONE AKAI BRAND MODELS]
IC402-A	EI-437175N	IC UPD78043FGF-024-3B9EXHDSPL1 [AKAI BRAND MODELS]
IC402-B	EI-437213N	IC UPD78043FGF-028-3B9EXHDSPN1 [NONE AKAI BRAND MODELS]
IC403	EI-353750N	IC NJM4558MB T1 T1T32P
IC404	EI-403233N	IC LB1641
IC405	EI-435187N	IC S-806H-Z TO-92 T05
IC406	EI-431275N	IC 24LC04BT/SN FP T12E
IC501	EI-435710N	IC LA70020M-TRM FPRT24E
IC601-A	EI-432781N	IC LA7447BM [EXCEPT EDG]
IC601-B	EI-432784N	IC LA7440M [EDG]
IC602-A	EI-435252N	IC LC89977M-TE-R FPRT16E [EXCEPT EDG]
IC602-B	EI-435272N	IC LC89978M-TE-R FPRT16E [EDG]
IC603	EI-428406N	IC LA7356M-TRM FPRT12E [EDG]
IC605	EI-429889N	IC MM1112XFBE FPBT12E [SEG]
IC801	EI-435189N	IC STV6400D-TR FPTRT24E [EXCEPT EA,EDG,G760EOH-D]
IC802	EI-435190N	IC MM1113XFBE FPBT12E [EA,EDG,G760EOH-D]
IC871	EI-433063N	IC LC74763-9143
IC892	EI-428403N	IC SDA5649X FP T24E [EXCEPT EA,EDG,EOH-N[S], G760EOH-D/DN]
L1	EO-380662J	COIL FIX 1 LF-5.0S F05 2R2M
L2	EO-380662J	COIL FIX 1 LF-5.0S F05 2R2M [EDG,EOH,EOG]
L3	EO-380662J	COIL FIX 1 LF-5.0S F05 2R2M
L6	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [EXCEPT SEG]
L101	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [EA,EOH-D,EOG,VCR3087CE]
L201	⚠ EO-428349N	COIL LF UF1922C4-152Y1R5-01 [EXCEPT EA,EDG]
L202	⚠ EO-428417N1	COIL LF HF2022-333Y0R3-01
L203	EO-422134N	COIL FIX 2 PC7-330K 330K
L204	EO-422134N	COIL FIX 2 PC7-330K 330K
L205	EO-422134N	COIL FIX 2 PC7-330K 330K
L206	EO-422134N	COIL FIX 2 PC7-330K 330K
L312	EO-390716N	COIL FIX 1 LHL06TB T05 272J
L401	EO-432682N	COIL FIX 1 EL0405RA T05 220J
L402	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L501	EO-389412N	COIL FIX 1 LAV35VB007 T05 101J
L502	EO-389412N	COIL FIX 1 LAV35VB007 T05 101J
L503-A	EO-422473N	COIL FIX 1 LF-5.0S T26 680J [EXCEPT SEG]
L503-B	EO-422475N	COIL FIX 1 LF-5.0S T26 560J [SEG]
L504-A	EO-428358N	COIL FIX 1 LF-5.0S T26 221J [EXCEPT SEG]
L504-B	EO-428359N	COIL FIX 1 LF-5.0S T26 271J [SEG]
L505	EO-422472N	COIL FIX 1 LF-5.0S T26 8R2J
L506	EO-428360N	COIL FIX 1 LF-5.0S T26 331J
L507	EO-422478N	COIL FIX 1 LF-5.0S T26 390J
L508	EO-422484N	COIL FIX 1 LF-5.0S T26 180J
L509	EO-422484N	COIL FIX 1 LF-5.0S T26 180J
L510	EO-422483N	COIL FIX 1 LF-5.0S T26 181J
L550	EO-389412N	COIL FIX 1 LAV35VB007 T05 101J
L601	EO-389412N	COIL FIX 1 LAV35VB007 T05 101J
L602	EO-422479N	COIL FIX 1 LF-5.0S T26 330J
L603	EO-389412N	COIL FIX 1 LAV35VB007 T05 101J
L604	EO-422479N	COIL FIX 1 LF-5.0S T26 330J [EXCEPT EA,SE,EK]
L605	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L606	EO-422473N	COIL FIX 1 LF-5.0S T26 680J
L607	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L608	EO-422474N	COIL FIX 1 LF-5.0S T26 6R8J
L610	EO-422479N	COIL FIX 1 LF-5.0S T26 330J [EDG]
L801	EO-389412N	COIL FIX 1 LAV35VB007 T05 101J
L871	EO-389412N	COIL FIX 1 LAV35VB007 T05 101J
L872	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [EXCEPT EA,SE,EK]
L873	EO-422474N	COIL FIX 1 LF-5.0S T26 6R8J
MD1-A	BV-435474N	RF CONVERT.YAA21-1121G EA [EA]
MD1-B	BV-435423N2	RF CONVERTER MDLP3E008C G/I/K [SE,EK AND NONE AKAI BRAND MODELS]
MD1-C	BV-429839N	RF CONVERTER YAA21-1045H G EO [EOH,EOG]
MD1-D	BV-434180N	RF CONVERT.YAA21-1108G G/K EDG [EDG]
MD1-E	BV-429901N	RF CONVERTER YAA41-0081G SECAM [SEG]
PH201	⚠ ET-422113N	PHOTO COUPLER PS2561-1-V
P201	⚠ EJ-416590N	SOCKET INLET CCT-2302-0371 2P
P401	EJ-434521N	SOCKET 15FE-BT-VK-N 15P
P402	EJ-434521N	SOCKET 15FE-BT-VK-N 15P
P403	EJ-433184N	SOCKET TAS-X06X-G1 6P
P413	EJ-433007N	SOCKET 00 6216 007 000 7P
P414	EJ-433163N	PLUG TKC-G10P-A1 10P
P501	EJ-434181N	SOCKET 10FE-BT-VK-N 10P
P601	EJ-435681N	SOCKET 11FE-BT-VK-N 11P [SEG]
R201	⚠ ER-422189N	R CT P BGR3N 3W 4R7K [EXCEPT EA,EDG]
R206	ER-422181N	R OMF H S20 FS ERG3SH 3W 823J
R208	ER-422512N	R OMF H S15 FS ERG2SH 2W 151J
R210	ER-428386N	R OMF V T05 FS ERX1SE 1W R56J
SW401	ES-433183N	SW MICRO MPU10390MLB0
TR1	ET-429897N	TR C.DTC144EKA T146T08E [EA,SE,EK AND NONE AKAI BRAND MODELS]
TR2	ET-392746N1	TR 2SA933AS R,S T05 [EA,SE,EK AND NONE AKAI BRAND MODELS]
TR3	ET-392746N1	TR 2SA933AS R,S T05
TR5	ET-414816N	TR 2SC2668 Y T05
TR6	ET-392746N1	TR 2SA933AS R,S T05
TR7	ET-364023N	TR DTC114ES T05
TR8	ET-392663N	TR 2SC1740S R,S T05 [EXCEPT EA,SE,G770EK-N]
TR9	ET-433071N	TR C.DTC144TKA T146T08E [EXCEPT EA,SE,G770EK-N]
TR10	ET-416932N	TR C.2SB709A R,S TXT08E [EA,SE,G770EK-N]
TR11	ET-392663N	TR 2SC1740S R,S T05
TR12	ET-416932N	TR C.2SB709A R,S TXT08E
TR13	ET-430868N	TR C.DTC114EKA T146T08E [SEG]
TR14	ET-416933N	TR C.2SD601A R,S TXT08E [SEG]
TR15	ET-416932N	TR C.2SB709A R,S TXT08E [SEG]
TR16	ET-392663N	TR 2SC1740S R,S T05 [SEG]
TR17	ET-429899N	TR C.DTA144TKA T146T08E [SEG]
TR18	ET-364023N	TR DTC114ES T05 [SEG]
TR101	ET-416933N	TR C.2SD601A R,S TXT08E [EA,EOH-D,EOG,VCR3087CE]
TR102	ET-416933N	TR C.2SD601A R,S TXT08E [EA,EOH-D,EOG,VCR3087CE]
TR201	⚠ ET-428371N	TR 2SC4908
TR202	⚠ ET-401091J	TR 2SD2144S U,V,W T05
TR204	ET-416697N	TR 2SD2396 J,K
TR205	ET-392663N	TR 2SC1740S R,S T05
TR206	ET-404498N	TR 2SB1306 Q,R T05
TR207	ET-368786N	TR DTC143ZS T05 [EXCEPT SEG]
TR208	ET-392663N	TR 2SC1740S R,S T05
TR209	ET-392663N	TR 2SC1740S R,S T05
TR210	ET-416697N	TR 2SD2396 J,K
TR211	ET-392663N	TR 2SC1740S R,S T05
TR212	ET-392663N	TR 2SC1740S R,S T05 [EXCEPT SEG]
TR213	ET-422154N	TR 2SB1426 Q,R T05 [SEG]
TR214	ET-368786N	TR DTC143ZS T05 [SEG]
TR215	ET-392746N1	TR 2SA933AS R,S T05
TR216	ET-368786N	TR DTC143ZS T05
TR217	ET-428373N	TR C.2SD2318 E,U,V FPTLT16E
TR218	ET-392663N	TR 2SC1740S R,S T05
TR310	ET-392746N1	TR 2SA933AS R,S T05 [EXCEPT SEG]
TR311	ET-392663N	TR 2SC1740S R,S T05
TR312	ET-392746N1	TR 2SA933AS R,S T05 [EXCEPT SEG]
TR313	ET-364023N	TR DTC114ES T05
TR401	ET-390010N	TR PHOTO PT4800
TR402	ET-390010N	TR PHOTO PT4800
TR403	ET-390009N	TR PHOTO PT493F
TR404	ET-390009N	TR PHOTO PT493F
TR405	ET-430868N	TR C.DTC114EKA T146T08E
TR406	ET-433918N	TR 2SB1240 Q,R T05
TR407	ET-428400N	TR C.DTC143EKA T146T08E
TR408	ET-416932N	TR C.2SB709A R,S TXT08E
TR409	ET-364645N	TR DTC143ES T05
TR410	ET-429897N	TR C.DTC144EKA T146T08E
TR413	ET-437201N	TR C.DTA143TKA T146T08E
TR414	ET-416932N	TR C.2SB709A R,S TXT08E
TR415	ET-433071N	TR C.DTC144TKA T146T08E
TR416	ET-416933N	TR C.2SD601A R,S TXT08E [EXCEPT EA,EDG,EOH-N[S], G760EOH-D/DN]
TR417	ET-416933N	TR C.2SD601A R,S TXT08E [EXCEPT EA,EDG,EOH-N[S], G760EOH-D/DN
TR418	ET-429897N	TR C.DTC144EKA T146T08E [EXCEPT EA,EDG,EOH-N[S], G760EOH-D/DN]
TR419	ET-429897N	TR C.DTC144EKA T146T08E [EXCEPT EA,EDG,G760EOH-D]
TR420	ET-429897N	TR C.DTC144EKA T146T08E [EDG]
TR502	ET-429897N	TR C.DTC144EKA T146T08E
TR503	ET-429897N	TR C.DTC144EKA T146T08E
TR504	ET-429897N	TR C.DTC144EKA T146T08E
TR507	ET-361961N	TR DTC144ES T05
TR508	ET-429897N	TR C.DTC144EKA T146T08E [SEG]
TR509	ET-416933N	TR C.2SD601A R,S TXT08E
TR511	ET-416933N	TR C.2SD601A R,S TXT08E
TR512	ET-416933N	TR C.2SD601A R,S TXT08E
TR513	ET-416932N	TR C.2SB709A R,S TXT08E
TR514	ET-392663N	TR 2SC1740S R,S T05
TR515	ET-433072N	TR C.DTC114TKA T146T08E
TR516	ET-421999N	TR C.UN221D TXT08E
TR518	ET-429897N	TR C.DTC144EKA T146T08E [SEG]
TR519	ET-416933N	TR C.2SD601A R,S TXT08E
TR520	ET-364492N	TR DTC114TS T05
TR550	ET-429899N	TR C.DTA144TKA T146T08E
TR553	ET-392746N1	TR 2SA933AS R,S T05
TR601	ET-366753N	TR DTA114ES T05
TR602	ET-361961N	TR DTC144ES T05
TR603	ET-364291N	TR DTA144ES T05
TR604	ET-392663N	TR 2SC1740S R,S T05
TR606	ET-361961N	TR DTC144ES T05
TR607	ET-429896N	TR C.DTA144EKA T146T08E [SEG]
TR608	ET-421934N	TR UN411D T05
TR609	ET-429896N	TR C.DTA144EKA T146T08E [EXCEPT EA,SE,EK]
TR610	ET-392663N	TR 2SC1740S R,S T05
TR611	ET-392746N1	TR 2SA933AS R,S T05
TR612	ET-429897N	TR C.DTC144EKA T146T08E
TR613	ET-429896N	TR C.DTA144EKA T146T08E
TR614	ET-416932N	TR C.2SB709A R,S TXT08E
TR615	ET-392663N	TR 2SC1740S R,S T05
TR616	ET-430868N	TR C.DTC114EKA T146T08E
TR617	ET-433072N	TR C.DTC114TKA T146T08E
TR624	ET-392663N	TR 2SC1740S R,S T05 [EDG]
TR828	ET-364291N	TR DTA144ES T05 [EXCEPT EA]
TR829	ET-361961N	TR DTC144ES T05 [EXCEPT EA]
TR830	ET-361961N	TR DTC144ES T05 [EXCEPT EA,EDG,EOH-N[S], G760EOH-D/DN]
TR871	ET-392746N1	TR 2SA933AS R,S T05
TR872	ET-392746N1	TR 2SA933AS R,S T05
TR873	ET-392663N	TR 2SC1740S R,S T05
TR874	ET-392746N1	TR 2SA933AS R,S T05
TU1-A	EE-435227N	TV TUNER TELE1-012A [EA]
TU1-B	EE-435224N	TV TUNER TELB1-016A [SE,G770EK-N]
TU1-C	EE-435225N	TV TUNER TELE4-045A [EXCEPT EA,SE,SEG,G770EK-N]
TU1-D	EE-435226N	TV TUNER TELE4-049A [SEG]
T201	⚠ ET-435636N	TRANS POW V1252-M
VL101	EO-435766N	COIL TUN1 JPS 372 S-FM DET5.74 [EA,EOH-D,EOG,VCR3087CE]
VL102	EO-435248N	COIL TUN1 JPS-110 M-FM DET5.5 [EA,EOH-D,EOG,VCR3087CE]
VR101	EV-397433N	R S-FIX H T05EVNDXAA03 0.1W152 [EA,EOH-D,EOG,VCR3087CE]
X101	EI-425185N	OSC X'TAL ASP1006 10.000MHZ [EA,EOH-D,EOG,VCR3087CE]
X401	EI-425240N	OSC X'TAL APS1011A 16.000MHZ
X402	EI-431323N	OSC X'TAL C-002RX 32.768KHZ
X403	EI-413047N	OSC CE CST5.00MGW 5.000MHZ

Ref. No.	Part No.	Description
X601-A	EI-405660N	OSC X'TAL HC-49U 4.433619MHZ [EXCEPT EDG]
X601-B	EI-431006N	OSC X'TAL HC-49U GX 3.579545MH [EDG]
X602	EI-405660N	OSC X'TAL HC-49U 4.433619MHZ [EDG]
X871	EI-416872N	OSC X'TAL APS1004A 17.734475MH
1	SZ-433649N	HOLDER S/E SENSOR (SG)
2	SZ-428508N1	HOLDER PHOTO SENSOR (SG)
3	SZ-433648N1	HOLDER D-LED (SG)

6. VIF-HIFI P.C. BOARD (EXCEPT EDG,SEG)

Ref. No.	Part No.	Description
FL1-A	EH-432626N	FILTER CE SAF33.4MC70Z [EA,EOH-D,EOG,VCR3087CE]
FL1-B	EH-432625N	FILTER CE SAF33.0MC70Z [EOH-N/DN,VCR3087NE,VCR1937, VCR4087,VCR6857]
FL1-D	EH-428166N	FILTER CE SAF33.0MCD70Z [SE,EK]
FL2-A	EH-432629N	FILTER CE SAF38.9MZW70Z
FL3-A	EH-368948N	FILTER CE TPS5.5MWA 5.5000MHZ *[EXCEPT SE,EK]*
FL3-B	EH-405642N	FILTER CE TPS6.0MB-TF21 T05 [SE,EK]
FL4-A	EH-416920N	FILTER CE SFT6.0MA [SE,EK]
FL4-B	EH-394948N	FILTER CE SFT5.5MA [EOH-N/DN,VCR3087NE,VCR1937, VCR4087,VCR6857]
IC1	EI-432759N	IC LA7577N
L4-A	EO-428463N	COIL FIX 1 EL0405RA T05 2R7J [EA,SE,EK]
L4-B	EO-428123N	COIL FIX 1 EL0405RA T05 5R6J [EXCEPT EA,SE,EK]
L5	EO-432681N	COIL FIX 1 EL0405RA T05 2R2J
L9-A	EO-410256N	COIL FIX 1 EL0405RA T05 100J [EXCEPT EA,SE,EK]
L9-B	EO-403937N	COIL FIX 1 EL0405RA T05 4R7J [EA]
L9-C	EO-428462N	COIL FIX 1 EL0405RA T05 6R8J [SE,EK]
L10-A	EO-408956N	COIL FIX 1 EL0405RA T05 390J [EXCEPT SE,EK]
L10-B	EO-403273N	COIL FIX 1 EL0405RA T05 330J [SE,EK]
TR3	ET-432740N	TR C.2SC2480 T,S TXT08E
TR6	ET-416933N	TR C.2SD601A R,S TXT08E
TR7	ET-416933N	TR C.2SD601A R,S TXT08E [EXCEPT EA,EOH-D,EOG,VCR3087CE]
VL1	EO-435235N	COIL TUN1 JPS-105 TRAP31.9M HF [EXCEPT EA,SE,EK]
VL2	EO-435236N	COIL TUN1 JPS-106 TRAP41.4M HF [EXCEPT EA,SE,EK]
VL6-A	EO-435237N	COIL TUN1 JPS-061 SIF I HF [SE,EK]
VL6-B	EO-435239N	COIL TUN1 JPS-062 SIF B/G HF [EOH-N/DN,VCR3087NE,VCR1937, VCR4087,VCR6857]
VL7	EO-435241N	COIL TUN1 JPS-241 AFT 38.9M HF
VL8	EO-435242N	COIL TUN1 JPS-107 VCO 38.9M HF
VR1	EV-432754N	R S-FIX H T05 RH0684C 0.3W 223

7. VIF-EDG P.C. BOARD (EDG)

Ref. No.	Part No.	Description
FL1	EH-435679N	FILTER CE K2960M D/K 38.9M
FL2	EH-414623N	FILTER CE TPS6.5MB-TF21 T05
FL3	EH-368948N	FILTER CE TPS5.5MWA 5.5000MHZ
FL51	EH-433123N	FILTER CE SFSH6.5MCB-TF21 T05
FL52	EH-433121N	FILTER CE SFSH5.5MCB-TF21 T05
FL53	EH-433122N	FILTER CE SFSH6.0MCB-TF21 T05
IC1	EI-368809N	IC M51496P
L1	EO-428259N	COIL FIX 1 EL0405RA T05 R68K
L5	EO-416716N	COIL FIX 1 EL0405RA T05 8R2J
L6	EO-408956N	COIL FIX 1 EL0405RA T05 390J
L51	EO-416716N	COIL FIX 1 EL0405RA T05 8R2J
L52	EO-408834N	COIL FIX 1 EL0405RA T05 221J
TR1	ET-432740N	TR C.2SC2480 T,S TXT08E
TR2	ET-416932N	TR C.2SB709A R,S TXT08E
TR3	ET-416933N	TR C.2SD601A R,S TXT08E
TR4	ET-416932N	TR C.2SB709A R,S TXT08E
TR51	ET-416933N	TR C.2SD601A R,S TXT08E
TR52	ET-416933N	TR C.2SD601A R,S TXT08E
VL2	EO-435421N	COIL TUN1 JPS-1331AFM6.0M NOR.
VL3	EO-435416N	COIL TUN1 JPS-002AFT38.9M NOR.
VL4	EO-435417N	COIL TUN1 JPS-1322A LLD 38.9M
VR1	EV-432752N	R S-FIX V T05 RH063LC 0.1W 223
X1	EI-368829N	OSC CE CSB512P

8. VIF-SEG P.C. BOARD (SEG)

Ref. No.	Part No.	Description
D1	ED-416930N	D SILICON C.MA77-TX TXT08E
D2	ED-416930N	D SILICON C.MA77-TX TXT08E
D3	ED-416930N	D SILICON C.MA77-TX TXT08E
D5	ED-432743N	D ZENER C.RD5.6MB2-T1 T1T08E
D6	ED-432744N	D SILICON C.MC2840-1 T1T08E
FL1	EH-432630N	FILTER CE SAF41MA70Z
FL2	EH-432623N	FILTER CE SAF32.4MCA70Z
FL3	EH-432629N	FILTER CE SAF38.9MZW70Z
FL4	EH-432626N	FILTER CE SAF33.4MC70Z
FL5	EH-368948N	FILTER CE TPS5.5MWA 5.5000MHZ
FL6	EH-414623N	FILTER CE TPS6.5MB-TF21 T05
FL7	EH-433121N	FILTER CE SFSH5.5MCB-TF21 T05
IC1	EI-425646N	IC UPC1823ACU
L2	EO-427255N	COIL FIX 1 EL0405RA T05 1R0J
L3	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L4	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L5	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L6	EO-432682N	COIL FIX 1 EL0405RA T05 220J
L7	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L8	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L11	EO-410256N	COIL FIX 1 EL0405RA T05 100J
L14	EO-432683N	COIL FIX 1 EL0405RA T05 3R3J
L15	EO-403273N	COIL FIX 1 EL0405RA T05 330J
TR2	ET-432740N	TR C.2SC2480 T,S TXT08E
TR3	ET-416933N	TR C.2SD601A R,S TXT08E
TR4	ET-429897N	TR C.DTC144EKA T146T08E
TR5	ET-429897N	TR C.DTC144EKA T146T08E
TR6	ET-429896N	TR C.DTA144EKA T146T08E
TR7	ET-429896N	TR C.DTA144EKA T146T08E
TR8	ET-432937N	TR C.DTC143TKA T146T08E
TR9	ET-416933N	TR C.2SD601A R,S TXT08E
TR10	ET-416932N	TR C.2SB709A R,S TXT08E
TR14	ET-416932N	TR C.2SB709A R,S TXT08E
TR15	ET-429897N	TR C.DTC144EKA T146T08E
TR16	ET-416933N	TR C.2SD601A R,S TXT08E
TR18	ET-432740N	TR C.2SC2480 T,S TXT08E
VC1	EC-412095N	C S-FIX H T05 TZ03Z100TR169
VL9	EO-435243N	COIL TUN1 JPS-243 SIF B/G SEG
VL10	EO-435244N	COIL TUN1 JPS-516 VCO 38.9 SEG
VL16	EO-435245N	COIL TUN1 JPS-515TRAP40.4M SEG
VR1	EV-432758N	R S-FIX H T05 RH063MC 0.1W 105
X1	EO-432745N	OSC CE CSB500F32 500KHZ

9. AUDIO P.C. BOARD

Ref. No.	Part No.	Description
D305	ED-307573N	D SILICON H 1SS131T-77 T26
D841	ED-307573N	D SILICON H 1SS131T-77 T26
IC103	EI-353750N	IC NJM4558MB T1 T1T32P
IC104	EI-353750N	IC NJM4558MB T1 T1T32P
IC105	EI-353750N	IC NJM4558MB T1 T1T32P
IC301	EI-433062N	IC TDA9614H
IC302	EI-385995N	IC BA7755A
IC303	EI-435451N	IC BU4053BCF-T1 FPT1T32P [EOH-DN,SEG]
L301	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L302	EO-392659N	COIL FIX 1 LHL06TB T05 562J
L303	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L304	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L306	EO-422477N	COIL FIX 1 LF-5.0S T26 470J
L803	EO-389412N	COIL FIX 1 LAV35VB007 T05 101J [EA,EDG,G760EOH-D]
PJ801	EJ-435428N	SOCKET 0350536100 BLACK 21P *[EXCEPT EA]*
PJ802	EJ-435428N	SOCKET 0350536100 BLACK 21P [EXCEPT EA,EDG,G760EOH-D]
PJ804	EJ-428008N	PIN J JPJ2022-01-020 RED 1P [EXCEPT EA]
PJ805	EJ-428006N	PIN J JPJ2022-01-030 WHITE 1P [EXCEPT EA]
P804	EJ-433105N	SOCKET 00 6216 007 110 7P
TR103	ET-430868N	TR C.DTC114EKA T146T08E
TR104	ET-430868N	TR C.DTC114EKA T146T08E
TR105	ET-429897N	TR C.DTC144EKA T146T08E
TR106	ET-429897N	TR C.DTC144EKA T146T08E
TR107	ET-416932N	TR C.2SB709A R,S TXT08E
TR108	ET-416933N	TR C.2SD601A R,S TXT08E
TR109	ET-416933N	TR C.2SD601A R,S TXT08E
TR110	ET-416933N	TR C.2SD601A R,S TXT08E
TR111	ET-416933N	TR C.2SD601A R,S TXT08E
TR112	ET-416932N	TR C.2SB709A R,S TXT08E
TR113	ET-416932N	TR C.2SB709A R,S TXT08E
TR301	ET-429897N	TR C.DTC144EKA T146T08E
TR302	ET-429896N	TR C.DTA144EKA T146T08E
TR303	ET-433072N	TR C.DTC114TKA T146T08E [EXCEPT EDG]
TR304	ET-433072N	TR C.DTC114TKA T146T08E [EDG,SE,EK,EOH-N,VCR3087NE,VCR1937, VCR4087,VCR6857]
TR305	ET-433072N	TR C.DTC114TKA T146T08E *[EXCEPT EDG]*
TR306	ET-429897N	TR C.DTC144EKA T146T08E [EDG]
TR315	ET-429897N	TR C.DTC144EKA T146T08E [EOH-DN,SEG]
TR316	ET-429897N	TR C.DTC144EKA T146T08E [EOH-DN,SEG]
TR317	ET-428400N	TR C.DTC143EKA T146T08E
TR318	ET-416932N	TR C.2SB709A R,S TXT08E
TR319	ET-416932N	TR C.2SB709A R,S TXT08E
TR320	ET-429897N	TR C.DTC144EKA T146T08E
TR321	ET-433072N	TR C.DTC114TKA T146T08E [EOH-DN,SEG]
TR322	ET-416933N	TR C.2SD601A R,S TXT08E [EOH-DN,SEG]
TR323	ET-416932N	TR C.2SB709A R,S TXT08E
TR802	ET-416932N	TR C.2SB709A R,S TXT08E *[EA,EDG,G760EOH-D]*
TR826	ET-416932N	TR C.2SB709A R,S TXT08E [EOH-DN,EOG,SEG,G765EOH-D, VCR3087CE]
TR827	ET-429897N	TR C.DTC144EKA T146T08E [EOH-DN,EOG,SEG,G765EOH-D, VCR3087CE]
TR841	ET-429897N	TR C.DTC144EKA T146T08E
TR842	ET-433976N	TR C.DTA114TKA T146T08E
TR843	ET-416933N	TR C.2SD601A R,S TXT08E
TR844	ET-416933N	TR C.2SD601A R,S TXT08E

10. OPERATION P.C. BOARD

Ref. No.	Part No.	Description
D101	ED-307573N	D SILICON H 1SS131T-77 T26
D102	ED-307573N	D SILICON H 1SS131T-77 T26
D103	ED-307573N	D SILICON H 1SS131T-77 T26
D104	ED-307573N	D SILICON H 1SS131T-77 T26
D105	ED-307573N	D SILICON H 1SS131T-77 T26
D106	ED-427719N	D ZENER H MTZJ9.1A T26
FL101-A	EM-435810N	IND FL FV744G CHARACTER *[EXCEPT EA,SE,EDG,EOH-N[S],SEG]*
FL101-B	EM-429960N	IND FL FIP10CCM7A CHARACTER [EA,SE,EDG,EOH-N[S]]
FL101-C	EM-435811N	IND FL FV745G CHARACTER *[SEG]*
PH101	ET-428361N	DETECTOR GP1U281X
P101-A	EJ-435405N	SOCKET 00 6216 015 110A 15P *[AKAI BRAND MODELS]*
P101-B	EJ-435222N	SOCKET 00 6216 015 100 15P [NONE AKAI BRAND MODELS]
P102-A	EJ-435405N	SOCKET 00 6216 015 110A 15P [AKAI BRAND MODELS]
P102-B	EJ-435222N	SOCKET 00 6216 015 100 15P *[NONE AKAI BRAND MODELS]*
SW101	ES-414593N	SW TACT SOR-142HS T05
SW102	ES-414593N	SW TACT SOR-142HS T05
SW103	ES-414593N	SW TACT SOR-142HS T05
SW104	ES-414593N	SW TACT SOR-142HS T05
SW105	ES-414593N	SW TACT SOR-142HS T05
SW106	ES-414593N	SW TACT SOR-142HS T05
SW107	ES-414593N	SW TACT SOR-142HS T05 *[AKAI BRAND MODELS]*
SW108	ES-414593N	SW TACT SOR-142HS T05
SW109	ES-414593N	SW TACT SOR-142HS T05
SW110	ES-414593N	SW TACT SOR-142HS T05
TR101	ET-364645N	TR DTC143ES T05
TR102	ET-364645N	TR DTC143ES T05

11. FRONT P.C. BOARD

Ref. No.	Part No.	Description
D31	ED-307573N	D SILICON H 1SS131T-77 T26
D32	ED-307573N	D SILICON H 1SS131T-77 T26
L31	EO-422487N	COIL FIX 1 LF-5.0S T26 101J
PJ1-A	EJ-428007N	PIN J JPJ2022-01-040 YELLOW 1P [EXCEPT SE]
PJ1-B	EJ-422356N	PIN J JPJ4022-01-040 1P *[SE]*
PJ2-A	EJ-428006N	PIN J JPJ2022-01-030 WHITE 1P [EXCEPT SE]
PJ2-B	EJ-396453N	PIN J JPJ5022-01-030 1P *[SE]*
PJ3-A	EJ-428008N	PIN J JPJ2022-01-020 RED 1P [EXCEPT SE]
PJ3-B	EJ-396452N	PIN J JPJ5022-01-020 1P [SE]
P4-A	EJ-433105N	SOCKET 00 6216 007 110 7P *[EXCEPT SE]*
P4-B	EJ-433106N	SOCKET 00 6216 009 110 9P [SE]
TR1	ET-392663N	TR 2SC1740S R,S T05
TR11	ET-392663N	TR 2SC1740S R,S T05
TR21	ET-392663N	TR 2SC1740S R,S T05

12. D-NICAM P.C. BOARD (EXCEPT EA,EDG,EOH-D,EOG,VCR3087CE)

Ref. No.	Part No.	Description
D1	ED-427173N	D VARACTOR MA840-B(TA) T26
D2	ED-307573N	D SILICON H 1SS131T-77 T26
FL101	EH-394947N	FILTER CE SFT5.74MA [EOH-DN]
FL102	EH-394948N	FILTER CE SFT5.5MA [EOH-DN]
FL201	EH-422489N	FILTER CE SAF33.0MDA70Z [SEG]
IC1	EI-433060N	IC SAA7283GP
IC2	EI-810965J	IC NJM4558L-D
IC3	EI-810965J	IC NJM4558L-D
IC101	EI-389644N	IC BA403 [EOH-DN]
IC102	EI-389644N	IC BA403 [EOH-DN]
IC103	EI-416611N	IC TDA8417 [EOH-DN]
IC201	EI-394868N	IC UPC1820CA [SEG]
L1	EO-389412N	COIL FIX 1 LAV35VB007 T05 101J
L2	EO-435254N	COIL FIX 1 EL0606RA T05 6R8J
L3	EO-389412N	COIL FIX 1 LAV35VB007 T05 101J
L4	EO-389412N	COIL FIX 1 LAV35VB007 T05 101J
L5	EO-422481N	COIL FIX 1 LF-5.0S T26 220J
L101	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [EOH-DN]
L102	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [EOH-DN]
L103	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [EOH-DN]
L201	EO-345978N	COIL FIX 1 EL0606RA T05 100J [SEG]
L202	EO-345978N	COIL FIX 1 EL0606RA T05 100J [SEG]
L203	EO-422488N	COIL FIX 1 LF-5.0S T26 100J [SEG]
TR101	ET-392663N	TR 2SC1740S R,S T05 [EOH-DN]
TR102	ET-392663N	TR 2SC1740S R,S T05 [EOH-DN]
TR201	ET-368108N	TR 2SC2926S P,Q T05 [SEG]
TR202	ET-392663N	TR 2SC1740S R,S T05 [SEG]
TR203	ET-392663N	TR 2SC1740S R,S T05 [SEG]
TR204	ET-361961N	TR DTC144ES T05 [SEG]
TR205	ET-361961N	TR DTC144ES T05 [SEG]
VL101	EO-435766N	COIL TUN1 JPS 372 S-FM DET5.74 [EOH-DN]
VL102	EO-435248N	COIL TUN1 JPS-110 M-FM DET5.5 [EOH-DN]
VL201	EO-435765N	COIL TUN1 JPS-079 VCO 1820 [SEG]
VR101	EV-397433N	R S-FIX HT05EVNDXAA03 0.1W152 [EOH-DN]
X1	EI-433914N	OSC X'TAL APS1026 8.192MHZ
X101	EI-425185N	OSC X'TAL ASP1006 10.000MHZ [EOH-DN]
X201	EI-394870N	OSC CE CSB500F23 504.5KHZ [SEG]

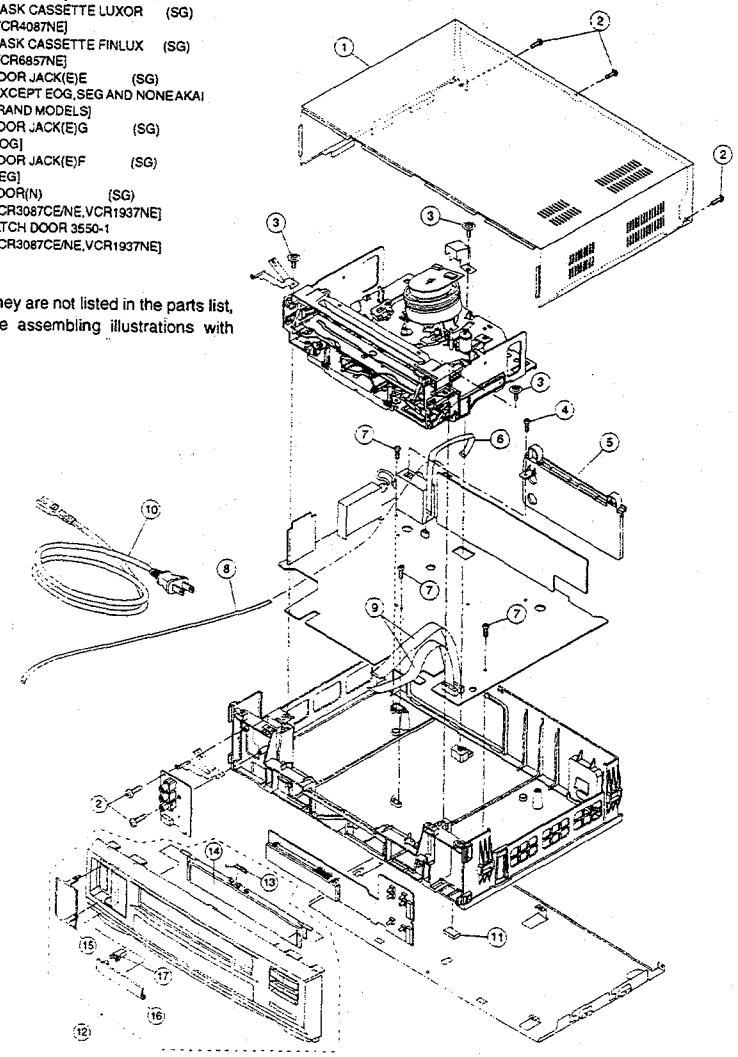
13. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1-A	SP-435920N	COVER UPPER EX(HL)FLAT PLATE(SG) [EA,EOG,EK,EOH-N[S]AND NONE AKAI BRAND MODELS]
1-B	SP-436152N	COVER UPPER EX(HL)F PLATE S(SG) [SE,EDG,SEG,EOH-D/DN/N[E]]
2	ZS-393515N	BT BID30X10STL BZN (SG)
3	ZS-426416N	BT PAN30X10STL CMT C080 (SG)
4	ZS-323728N	BID30X05STL CMT (SG)
5-A	SP-435954N	PANEL REAR JACK EA2 (SG) [EA]
5-B	SP-435955N	PANEL REAR JACK EDG3 (SG) [EDG]
5-C	SP-435956N	PANEL REAR JACK EK3 (SG) [SE,EK]
5-D	SP-435957N	PANEL REAR JACK EOH4 (SG) [G760EOH-D]
5-E	SP-435958N	PANEL REAR JACK EOH5 (SG) [EOH-DN,G765EOH-D,VCR3087CE]
5-F	SP-435959N	PANEL REAR JACK EOH6 (SG) [EOH-N,VCR3087NE,VCR1937,VCR4087, VCR6857]
5-G	SP-434923N	PANEL REAR JACK EOG2 (SG) [EOG]
5-H	SP-435961N	PANEL REAR JACK SEG2 (SG) [SEG]
6	EW-436247N	CORD EX FFC MA-DM L95 BD 7P [MAIN TO DRUME MOTOR]
7	ZS-376521N	BT BID30X08STL CMT (SG)
8	EW-436283N	CORD EX FFC F-IO L360 7P [FRONT TO AUDIO]
9	EW-434533N	CORD FFC BD P1.25 L160 15P [MAIN TO OP]
10-A	⚠ EW-430842N	AC CORD 200S SF200 SF201 E [EXCEPT EA,SE,EK,EOH-N[S]
10-B	⚠ EW-425599N	AC CORD 200S CW2101CW4771 B S [EA,EOH-N[S]]
10-C	⚠ EW-436245N	AC CORD 200S SF628 SF201 B [SE,EK]
11	SA-422907N	FOOT AX (SG)
12-A	BD-436022N	PANEL F(E)G765EA-D PART (SG)
12-B	BD-436023N	PANEL F(E)G760EDG PART (SG)
12-C	BD-436024N	PANEL F(E)G770EK-N PART (SG)
12-D	BD-436025N	PANEL F(E)G771EK-N PART (SG)
12-E	BD-436027N	PANEL F(E)G760EOH-D PART (SG)
12-F	BD-436028N	PANEL F(E)G765EOH-D PART (SG)
12-G	BD-436029N	PANEL F(E)G770EOH-N(S) PART(SG)
12-H	BD-436030N	PANEL F(E)G770EOH-N(E) PART(SG)
12-I	BD-436031N	PANEL F(E)G760EOH-DN PART (SG)
12-J	BD-436032N	PANEL F(E)G765EOH-DN PART (SG)
12-K	BD-436033N	PANEL F(E)G770EOG-D PART (SG)
12-L	BD-436137N	PANEL F(E)G767EOG-D PART (SG)
12-M	BD-436157N	PANEL F(E)G745SE PART (SG)
12-N	BD-436066N	PANEL F(E)G760SEG-N PART (SG)
12-O	BD-436067N	PANEL F(E)G765SEG-N PART (SG)
12-P	BD-436068N	PANEL F(E)G770SEG-N PART (SG)
12-Q	BD-435970N	PANEL F(N)VCR3087 PART (SG)
12-R	BD-435972N	PANEL F(N)VCR1937 PART (SG)
12-S	BD-435973N	PANEL F(L)VCR4087NE PART (SG)
12-T	BD-435974N	PANEL F(L)VCR6857NE PART (SG)
13	ZG-429541N	SP MASK(4) (SG)
14-A	SE-436185N	MASK CASSETTE VS-G765(E1) (SG) [EA]
14-B	SE-436188N	MASK CASSETTE VS-G760(E1) (SG) [EDG]
14-C	SE-436199N	MASK CASSETTE VS-G770(E2) (SG) [G770EK]
14-D	SE-436192N	MASK CASSETTE VS-G771(E1) (SG) [G771EK]
14-E	SE-436201N	MASK CASSETTE VS-G760(E2) (SG) [G760EOH-D]
14-F	SE-436204N	MASK CASSETTE VS-G765(E2) (SG) [G765EOH-D]
14-G	SE-436212N	MASK CASSETTE VS-G770(E3) (SG) [G770EOH-N[S]]
14-H	SE-436190N	MASK CASSETTE VS-G770(E1) (SG) [G770EOH-N[E]]
14-I	SE-436201N	MASK CASSETTE VS-G760(E2) (SG) [G760EOH-DN]
14-J	SE-436204N	MASK CASSETTE VS-G765(E2) (SG) [G765EOH-DN]
14-K	SE-436196N	MASK CASSETTE VS-G770(G1) (SG) [G770EOG]

Ref. No.	Part No.	Description
14-L	SE-436194N	MASK CASSETTE VS-G767(G1) (SG) [G767EOG]
14-M	SE-436191N	MASK CASSETTE VS-G745(E1) (SG) [SE]
14-N	SE-436208N	MASK CASSETTE VS-G760(F1) (SG) [G760SEG]
14-O	SE-436210N	MASK CASSETTE VS-G765(F1) (SG) [G765SEG]
14-P	SE-436211N	MASK CASSETTE VS-G770(F1) (SG) [G770SEG]
14-Q	SE-436450N	MASK CASSETTE NOKIA(2) (SG) [VCR3087CE/NE]
14-R	SE-436452N	MASK CASSETTE SALORA(2) (SG) [VCR1937NE]
14-S	SE-436416N	MASK CASSETTE LUXOR (SG) [VCR4087NE]
14-T	SE-436418N	MASK CASSETTE FINLUX (SG) [VCR6857NE]
15-A	SE-435879N	DOOR JACK(E)E (SG) [EXCEPT EOG,SEG AND NONE AKAI BRAND MODELS]
15-B	SE-435880N	DOOR JACK(E)G (SG) [EOG]
15-C	SE-435881N	DOOR JACK(E)F (SG) [SEG]
16	SE-436448N	DOOR(N) (SG) [VCR3087CE/NE,VCR1937NE]
17	SZ-390032J	LATCH DOOR 3550-1 [VCR3087CE/NE,VCR1937NE]

NOTE :
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

FINAL ASSEMBLY BLOCK



14. ACCESSORY

Ref. No.	Part No.	Description
1	EW-348414N	CORD PAL [EXCEPT SEG]
2	AV-348415N	CORD SECAM [SEG]
3	EW-427525N	CORD 21PIN AV CABLE [SEG]
4-A	AV-435321N	REMOCON RC-Y131E [EA,EOH-N[S]]
4-B	AV-435320N	REMOCON RC-Y101E [EDG,G760EOH-D/DN]
4-C	AV-436288N	REMOCON RC-X568E [SE,EK]
4-D	AV-435325N	REMOCON RC-Y122E [G765EOH-D/DN,EOH-N[E]]
4-E	AV-435326N	REMOCON RC-Y122G [G770EOG]
4-F	AV-435635N	REMOCON RC-Y121G [G767EOG]
4-G	AV-435329N	REMOCON RC-Y101F [G760SEG]
4-H	AV-435331N	REMOCON RC-Y121F [G765SEG]
4-I	AV-435332N	REMOCON RC-Y122F [G770SEG]
4-J	AV-437211N	REMOCON RC-Y122NK [VCR3087CE/NE]
4-K	AV-437212N	REMOCON RC-Y122SL [VCR1937NE]
4-L	AV-437210N	REMOCON RC-Y122LX [VCR4087NE]
4-M	AV-437209N	REMOCON RC-Y122FL [VCR6857NE]
5-A	SC-734097N	COVER BATTERY (EX-1) [RC-Y101,121,131]
5-B	SC-734098N	COVER BATTERY (EX-2) [RC-Y122E/G/F]
5-C	SC-734100N	COVER BATTERY (EX-NK) [RC-Y122NK]
5-D	SC-734101N	COVER BATTERY (EX-SL) [RC-Y122SL]
5-E	SC-734102N	COVER BATTERY (EX-LX) [RC-Y122LX]
5-F	SC-734103N	COVER BATTERY (EX-FL) [RC-Y122FL]
5-G	SC-733720N1	COVER BATTERY (GX) [RC-X568]
6-A	SC-734099N	COVER (EX-2) [RC-Y122]
6-B	SP-733722N	LIDAX VIDEO PLUS-1 [RC-X568E]

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Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
AV348415N	14-2	BV429839N	5-MD1-C	ED416930N	8-D3	EI389644N	12-IC102
AV435320N	14-4-B	BV429901N	5-MD1-E	ED418622N	5-D201	EI390053N	5-IC2
AV435321N	14-4-A	BV433522N1	2-1	ED418622N	5-D202	EI394868N	12-IC201
AV435325N	14-4-D	BV433534N1	2-2	ED418622N	5-D203	EI394870N	12-X201
AV435326N	14-4-E	BV433615N2	2-16	ED418622N	5-D204	EI403233N	5-IC404
AV435329N	14-4-G	BV434180N	5-MD1-D	ED418624N	5-D222	EI405660N	5-X601-A
AV435331N	14-4-H	BV435423N2	5-MD1-B	ED418820N	5-D229	EI405660N	5-X602
AV435332N	14-4-I	BV435474N	5-MD1-A	ED418820N	5-D232	EI413047N	5-X403
AV435635N	14-4-F	EC412095N	8-VC1	ED418820N	5-D234	EI416611N	5-IC103
AV436288N	14-4-C	EC416655N	5-C430	ED422420J	5-D227	EI416611N	12-IC103
AV437209N	14-4-M	EC418759N	5-C212	ED422420J	5-D242	EI416872N	5-X871
AV437210N	14-4-L	EC422101N1	5-C201	ED422519N	5-D412	EI422128N	5-IC201
AV437211N	14-4-J	EC422101N1	5-C202	ED425442N	5-D4-A	EI425185N	5-X101
AV437212N	14-4-K	EC428385N	5-C211	ED426202N	5-D223	EI425185N	12-X101
BAF5002V010A	4-2-A	EC432918N	5-C210	ED427173N	12-D1	EI425240N	5-X401
BAF5002V010B	4-2-B	EC435500N	5-C204	ED427506N	5-D205	EI425646N	8-IC1
BAF5002V010D	4-2-C	EC435500N	5-C205	ED427719N	10-D106	EI428403N	5-IC892
BAF5002V010E	4-2-D	EC435500N	5-C206	ED428014N	5-D4-B	EI428406N	5-IC603
BAF5002V010G	4-2-E	EC435500N	5-C207	ED428162N	5-D220	EI429889N	5-IC605
BAF5002V020B	4-2-G	EC435500N	5-C208	ED428420N	5-D221	EI431006N	5-X601-B
BAF5002V030A	4-2-F	EC435500N	5-C209	ED428420N	5-D225	EI431275N	5-IC406
BAV1244V640A	3-A	ED307573N	5-D1	ED432743N	8-D5	EI431323N	5-X402
BAV1244V640B	3-B	ED307573N	5-D2	ED432744N	8-D6	EI432759N	6-IC1
BAV1244V640C	3-D	ED307573N	5-D3	ED433962N	5-D409	EI432781N	5-IC601-A
BAV1244V640E	3-C	ED307573N	5-D5	ED434522N	5-D237	EI432784N	5-IC601-B
BAV1252V600A	4-1-A	ED307573N	5-D8	ED435259N	5-D236	EI433060N	12-IC1
BAV1252V600B	4-1-B	ED307573N	5-D9	ED435478N	5-D224	EI433062N	9-IC301
BAV1252V600C	4-1-C	ED307573N	5-D11	EE435224N	5-TU1-B	EI433063N	5-IC871
BAV1252V600D	4-1-D	ED307573N	5-D12	EE435225N	5-TU1-C	EI433914N	12-X1
BAV1252V600E	4-1-E	ED307573N	5-D13	EE435226N	5-TU1-D	EI435187N	5-IC405
BAV1252V600F	4-1-F	ED307573N	5-D207	EE435227N	5-TU1-A	EI435189N	5-IC801
BAV1252V600G	4-1-G	ED307573N	5-D228	EF394702N	5-F201	EI435190N	5-IC802
BAV1252V600H	4-1-H	ED307573N	5-D231	EH368948N	6-FL3-A	EI435252N	5-IC602-A
BAV1252V600J	4-1-I	ED307573N	5-D233	EH368948N	7-FL3	EI435272N	5-IC602-B
BAV1252V600K	4-1-J	ED307573N	5-D301	EH368948N	8-FL5	EI435451N	9-IC303
BAV1252V600L	4-1-K	ED307573N	5-D302	EH394947N	5-FL101	EI435471N2	5-IC401-A
BAV1252V600M	4-1-L	ED307573N	5-D410	EH394947N	12-FL101	EI435472N1	5-IC401-B
BAV1259V600A	4-1-M	ED307573N	5-D411	EH394948N	5-FL102	EI435710N	5-IC501
BAV1259V600B	4-1-N	ED307573N	5-D414	EH394948N	6-FL4-B	EI437175N	5-IC402-A
BB433174N	2-18	ED307573N	5-D415	EH394948N	12-FL102	EI437206N	5-IC401-C
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BD435973N	13-12-S	ED307573N	5-D601	EH414623N	8-FL6	EI810965J	12-IC3
BD435974N	13-12-T	ED307573N	5-D602	EH416920N	6-FL4-A	EJ396452N	11-PJ3-B
BD436022N	13-12-A	ED307573N	5-D603	EH422489N	12-FL201	EJ396453N	11-PJ2-B
BD436023N	13-12-B	ED307573N	5-D605	EH428166N	6-FL1-D	EJ416590N	5-P201
BD436024N	13-12-C	ED307573N	5-D821	EH432623N	8-FL2	EJ422356N	11-PJ1-B
BD436025N	13-12-D	ED307573N	9-D305	EH432625N	6-FL1-B	EJ428006N	9-PJ805
BD436027N	13-12-E	ED307573N	9-D841	EH432626N	6-FL1-A	EJ428006N	11-PJ2-A
BD436028N	13-12-F	ED307573N	10-D101	EH432626N	8-FL4	EJ428007N	11-PJ1-A
BD436029N	13-12-G	ED307573N	10-D102	EH432629N	6-FL2-A	EJ428008N	9-PJ804
BD436030N	13-12-H	ED307573N	10-D103	EH432629N	8-FL3	EJ428008N	11-PJ3-A
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BD436032N	13-12-J	ED307573N	10-D105	EH433119N	5-FL601	EJ433105N	9-P804
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BL433689N	2-509	ED403280N	5-D241	EI353750N	9-IC105	EJ435405N	10-P101-A
BM433176N	3-500	ED403280N	5-D404	EI368809N	7-IC1	EJ435405N	10-P102-A
BM433198N	2-501	ED403280N	5-D405	EI368829N	7-X1	EJ435428N	9-PJ801
BM433593N1	3-3	ED403280N	5-D406	EI385995N	9-IC302	EJ435428N	9-PJ802
BT435636N	5-T201	ED403280N	5-D407	EI389644N	5-IC101	EJ435681N	5-P601
BVV1234D430J	2-504-A	ED416930N	8-D1	EI389644N	5-IC102	EM429960N	10-FL101-B
BVV1234D430K	2-504-B	ED416930N	8-D2	EI389644N	12-IC101	EM435810N	10-FL101-A

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
EM435811N	10-FL101-C	EO428123N	6-L4-B	ET364645N	5-TR409	ET416933N	5-TR14
EO345978N	12-L201	EO428259N	7-L1	ET364645N	10-TR101	ET416933N	5-TR101
EO345978N	12-L202	EO428349N	5-L201	ET364645N	10-TR102	ET416933N	5-TR102
EO380662J	5-L1	EO428358N	5-L504-A	ET366753N	5-TR601	ET416933N	5-TR416
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EO380662J	5-L3	EO428360N	5-L506	ET368786N	5-TR207	ET416933N	5-TR509
EO389412N	5-L501	EO428417N1	5-L202	ET368786N	5-TR214	ET416933N	5-TR511
EO389412N	5-L502	EO428462N	6-L9-C	ET368786N	5-TR216	ET416933N	5-TR512
EO389412N	5-L550	EO428463N	6-L4-A	ET390009N	5-TR403	ET416933N	5-TR519
EO389412N	5-L601	EO432681N	6-L5	ET390009N	5-TR404	ET416933N	6-TR6
EO389412N	5-L603	EO432682N	5-L401	ET390010N	5-TR401	ET416933N	6-TR7
EO389412N	5-L801	EO432682N	8-L6	ET390010N	5-TR402	ET416933N	7-TR3
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EO390716N	5-L312	EO435239N	6-VL6-B	ET392663N	5-TR209	ET416933N	9-TR108
EO392659N	9-L302	EO435241N	6-VL7	ET392663N	5-TR211	ET416933N	9-TR109
EO403273N	6-L10-B	EO435242N	6-VL8	ET392663N	5-TR212	ET416933N	9-TR110
EO403273N	8-L15	EO435243N	8-VL9	ET392663N	5-TR218	ET416933N	9-TR111
EO403937N	6-L9-B	EO435244N	8-VL10	ET392663N	5-TR311	ET416933N	9-TR322
EO408834N	7-L52	EO435245N	8-VL16	ET392663N	5-TR514	ET416933N	9-TR843
EO408956N	6-L10-A	EO435248N	5-VL102	ET392663N	5-TR604	ET416933N	9-TR844
EO408956N	7-L6	EO435248N	12-VL102	ET392663N	5-TR610	ET421934N	5-TR608
EO410256N	5-L402	EO435254N	12-L2	ET392663N	5-TR615	ET421999N	5-TR516
EO410256N	6-L9-A	EO435416N	7-VL3	ET392663N	5-TR624	ET422113N	5-PH201
EO410256N	8-L3	EO435417N	7-VL4	ET392663N	5-TR873	ET422154N	5-TR213
EO410256N	8-L4	EO435421N	7-VL2	ET392663N	11-TR1	ET428361N	10-PH101
EO410256N	8-L5	EO435765N	12-VL201	ET392663N	11-TR11	ET428371N	5-TR201
EO410256N	8-L7	EO435766N	5-VL101	ET392663N	11-TR21	ET428373N	5-TR217
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EO416716N	7-L5	ER400729N	5-FR402	ET392663N	12-TR202	ET429896N	5-TR607
EO416716N	7-L51	ER408829N	5-FR202	ET392663N	12-TR203	ET429896N	5-TR609
EO418829N	5-FL301	ER408829N	5-FR205	ET392746N1	5-TR2	ET429896N	5-TR613
EO422134N	5-L203	ER410380N	5-FR204	ET392746N1	5-TR3	ET429896N	8-TR6
EO422134N	5-L204	ER418648N	5-FR401	ET392746N1	5-TR6	ET429896N	8-TR7
EO422134N	5-L205	ER418648N	5-FR403	ET392746N1	5-TR215	ET429896N	9-TR302
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EO422362N	5-FL871	ER422189N	5-R201	ET392746N1	5-TR312	ET429897N	5-TR410
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EO422473N	5-L503-A	ER428386N	5-R210	ET392746N1	5-TR611	ET429897N	5-TR419
EO422473N	5-L606	ER435803N	5-FR201	ET392746N1	5-TR871	ET429897N	5-TR420
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EO422474N	5-L873	ES414593N	10-SW102	ET392746N1	5-TR874	ET429897N	5-TR503
EO422475N	5-L503-B	ES414593N	10-SW103	ET401091J	5-TR202	ET429897N	5-TR504
EO422477N	5-L605	ES414593N	10-SW104	ET404498N	5-TR206	ET429897N	5-TR508
EO422477N	5-L607	ES414593N	10-SW105	ET414816N	5-TR5	ET429897N	5-TR518
EO422477N	9-L301	ES414593N	10-SW106	ET416697N	5-TR204	ET429897N	5-TR612
EO422477N	9-L303	ES414593N	10-SW107	ET416697N	5-TR210	ET429897N	8-TR4
EO422477N	9-L304	ES414593N	10-SW108	ET416932N	5-TR10	ET429897N	8-TR5
EO422477N	9-L306	ES414593N	10-SW109	ET416932N	5-TR12	ET429897N	8-TR15
EO422478N	5-L507	ES414593N	10-SW110	ET416932N	5-TR15	ET429897N	9-TR105
EO422479N	5-L602	ES426275N	5-SW402	ET416932N	5-TR408	ET429897N	9-TR106
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EO422488N	12-L102	ET364023N	5-TR313	ET416932N	9-TR319	ET430868N	5-TR616
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EO422488N	12-L203	ET364291N	5-TR828	ET416932N	9-TR802	ET430868N	9-TR104
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ET432740N	8-TR2	SE436201N	13-14-I				
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ET432937N	8-TR8	SE436204N	13-14-J				
ET433071N	5-TR9	SE436208N	13-14-N				
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ET433072N	5-TR515	SE436211N	13-14-P				
ET433072N	5-TR617	SE436212N	13-14-G				
ET433072N	9-TR303	SE436416N	13-14-S				
ET433072N	9-TR304	SE436418N	13-14-T				
ET433072N	9-TR305	SE436448N	13-16				
ET433072N	9-TR321	SE436450N	13-14-Q				
ET433918N	5-TR406	SE436452N	13-14-R				
ET433976N	9-TR842	SP434923N	13-5-G				
ET437201N	5-TR413	SP435920N	13-1-A				
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EW427525N	14-3	SP436152N	13-1-B				
EW430842N	13-10-A	SP733722N	14-6-B				
EW434533N	13-9	SZ390032J	13-17				
EW436245N	13-10-C	SZ428508N1	5-2				
EW436247N	13-6	SZ433648N1	5-3				
EW436283N	13-8	SZ433649N	5-1				
HE433151N	2-506	VT433526N	2-3				
HR435698N2	2-508	ZG428605N	3-13				
HZ417681N	2-510	ZG429541N	13-13				
MB433627N	3-501	ZG433557N	2-14				
MI433579N4	3-11	ZG433559N	2-9				
MI433597N8	3-10	ZG433608N3	2-10				
ML433546N1	2-13	ZS201275N	3-502				
ML433553N1	2-12	ZS323728N	13-4				
ML433560N	2-11	ZS344754N	2-507				
ML433567N1	2-15	ZS376521N	13-7				
ML433576N	3-7	ZS389950N	3-2				
ML433584N	3-12	ZS393515N	13-2				
ML433586N	3-8	ZS403887N	2-505				
ML433590N	3-5	ZS417161N	2-500				
ML433604N4	2-8	ZS418616J	2-4				
ML433628N	2-511	ZS426416N	13-3				
MT433537N1	2-6	ZS479474N	2-503				
MZ433568N	3-6						
MZ433578N	3-14						
MZ433589N	3-9						
MZ433591N	3-4						
MZ433904N	2-502						
SA422907N	13-11						
SC733720N1	14-5-G						
SC734097N	14-5-A						
SC734098N	14-5-B						
SC734099N	14-6-A						
SC734100N	14-5-C						
SC734101N	14-5-D						
SC734102N	14-5-E						
SC734103N	14-5-F						
SE435879N	13-15-A						
SE435880N	13-15-B						
SE435881N	13-15-C						
SE436185N	13-14-A						
SE436188N	13-14-B						
SE436190N	13-14-H						
SE436191N	13-14-M						
SE436192N	13-14-D						
SE436194N	13-14-L						
SE436196N	13-14-K						
SE436199N	13-14-C						

ABBREVIATIONS (VIDEO)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
A	Audio or Analogue	MOD	MODulator
AC	Alternating Current	MRS	Motor ReverSe
ACC	Automatic Color Control	NAP	NtscAmusement Pal
A/C	Audio and Control	NG	Noise Gate
ADJ	ADJust (ment)	NICAM	Near Instanteneous CompandAudio Multiplex
AFC	Automatic Frequency Control	NON-LIN	NON-LINear
AFT	Automatic Fine Tuning	N.T.S.C.	National Television System Committee
AGC	Automatic Gain Control	OSC	OSCillator
AH	Audio Head	PAL	Phase Alternation by Line
AL	ALways (voltage)	PB	Play Back
ALC	Automatic Level Control	PCB (P.C.B)	Printed Circuit Board
A-SW.P	Audio SWitching Pulse	P-COM	Phase-COMparator
A-MUTE	Audio MUTE	P DOWN	Power DOWN
ANT	ANTenna	PG	Pulse Generator
APC	Automatic Phase Control	P.I.P	Picture In Picture
ASSY	ASSemblY	PL, PLG	PLunger (PLunGer)
BAL	BALance	PRG (PGM)	PRoGram (ProGraM)
B DOWN	Break DOWN	PU	Pick UP (head, pulse)
BGP	Burst Gate Pulse	PWR	PoWeR
BLK	BLocK or BLacK	Q	Quality factor
BOP	Blank Output Pulse	R	Right
BPF	Band Pass Filter	RAM	RandomAccess Memory
BU	Back Up (voltage)	REC	RECord
B/W	Black and White	REF	REFerence
C	Chroma or Color	REF-V	REFerence Vertical signal
CCD	Charge Coupled Device	REG	REGulator
CCIR	Comit Consultatif International des Radio communications	REV (REVW)	REView (REVieW)
CH (ch)	CHannel (channel)	REW	REWind
CLK	CLocK	RF	Radio Frequency
CM	Capstan Motor	ROM	Read Only Memory
CN	CoNnector	R.S SW	Record-Safety SWitch
COMP	COMParator	RST (RES)	ReSet (RESet)
CSW	Cassette SWitch	RVS	ReVerSe
CSYNC	Composite SYNC	S	Sensor, Shield
CTL	ConTrol	SAW	SurfaceAcoustic Wave
CUE	CUE	SC	SimulCast
DAC	Digital to Analog Converter	S CLK	Serial CLocK
DC	Direct Current	SECAM	SÉquentiel Couleur À Mémoire
DEMOD	DEMODulator	S & H	Sample and Hold
DET	DETetct (DETector)	SLP	Super Long Play
DL	Delay Line	SP	Standard Play
DM	Drum Motor	SPD	SPeeD
DOC	Drop Out Compensator	SRP	Supply Reel Pulse
D.P.E	Drum Phase Error	SRV	SeRVo
D.PG	Drum Pulse Generator	SOW	Sync On Word
EE	Electronic to Electronic	STBY	STandBY
EF	Emitter Follower	S.VHS	Super VHS
EMPHA	EMPHAsis	SW	SWitch
ENV	ENVelope	SW'NG	SWitchiNG
EP	Extended Play	SWP	SWitching Pulse
EP ROM	Erasable Programmable ROM	SYNC	SYNChronize
EQ	EQualizer	T-AUDIO	TunerAUDIO
FE	Full track Erase	TPZ (TRAPE)	TraPeZoid (TRAPEzoid)
FF	Flip-Flop or Fast Foward	TRK	TRacKing
FG	Frequency Generator	TRP	Take up Reel Pulse
Fig	Figure	T/U	Take Up
FLD	FLuorescent Display	TV	TeleVision
FM	Frequency Modulation	UHF	Ultra High Frequency
Fo	resonance Frequency	UNR	UNRegulated (voltage)
FREQ	FREQuency	V	Vertical or Video
GND	GrouND	VASS	VideoAddress Search System
H	Horizontal	VCO	Voltage Controlled Oscillator
HP	Horizontal (sync) pulse	VH	Video Head
HPF	High Pass Filter	VHF	Very High Frequency
HQ	High Quality System	VHS	Video Home System
IC	Integrated Circuit	VIF	Video Intermediate Frequency
ID	IDentification	VISS	Video Index Search System
IDL	IDLe (Voltage)	VJ	Video Judge
IMS	Interactive Monitor System	VM	Voltage for Memory
INS	INSert	VOB	Video On Blank
INV	INVerter	VOW	Video On Word
L	Left	VP	Vertical (sync) Pulse
LED	Light Emitting Diode	VPS	Video Program System
LIM	LIMitter	VPT	Video Programming by video Text
LM	Loading Motor	VT	Voltage for Tuning
LM STP	Loading Motor STop	WHT	WHiTe
LP	Long Play	Y	Luminance
LPF	Low Pass Filter	2H	2 Hour (SP)
ME-SECAM	Middle East SECAM	4H	4 Hour (LP)
MI-COM	MIcro COMputer	6H	6 Hour (SLP/EP)
MM	Mono-stayble Multi		

MEMO

AKAI

MODEL VS-G745 SE,G767 EOG-D,G771 EK-N
MODEL VS-G760 EDG/EOH-D/EOH-DN/SEG-N
MODEL VS-G765 EA-D/EOH-D/EOH-DN/SEG-N
MODEL VS-G770 EK-N/EOG-D/EOH-N/SEG-N

SCHEMATIC DIAGRAMS AND PC BOARDS

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Use these schematic diagrams and PC boards together with the provided service manual.

VIDEO BLOCK DIAGRAM

No.4-1 V125351M A0

PB ENVELOPE OUT (LOWER-V. SWP)

REC Y/C OUT

REC Y FM SIGNAL

REC MAIN EMPHASIS OUT

EQUALIZER (REC)

(PB) LOW PASS FILTER IN

(PB) LOW PASS FILTER OUT

CCD OUT (PB)

CCD IN (PB)

CUE MODE (X7) CHROMA ROTARY PULSE (LOWER-V. SWP)

VIDEO OUT (PB)

VIDEO IN

IMS IN (PB)

SYNC IN (PB)

IMS OUT (PB)

PB Y FM SIGNAL IN

PB LOW CHROMA IN

REC LOW CHROMA OUT

CCD OUT (PB)

COMB FILTER 2 IN (PB)

PB Y SIGNAL LINE
REC Y SIGNAL LINE
PB CHROMA SIGNAL LINE
REC CHROMA SIGNAL LINE
RGB SIGNAL

COMB FILTER 1 IN (PB)

REC HIGH CHROMA SIGNAL

CHROMA MIX OUT

fSC OUT

SECAM VIDEO IN

SECAM PB CHROMA

PB LOW CHROMA IN (SECAM)

REC CHROMA OUT (SECAM)

VIDEO IN

VIDEO OUT (PB)

MAIN PCB

IC401 M37774M5H (SERVO/SYSCON MI-CON)

IC501 LA7909M (PB PRE AMP/REC AMP)

REC CURRENT ENVELOPE SHAPING CIRCUIT (AROUND SWITCHING POINT)

IC601 LA7447BM (EXCEPT EDG) LA7440M (EDG ONLY)

IC602 (1/2) (1H/2H DELAY (CCD COMB FILTER))

IC602 (2/2) (1H/2H DELAY (CCD COMB FILTER))

IC603 LA7538M (SECAM DETECT)

IC602 LC89788M (EDG ONLY)

IC602 (1/3) (CCD 1H DELAY LINE)

IC401 (PD7804/3M) (OPERATION-CUM-I/O MI-CON)

IC892 SDA6645X (VPS/PDC MI-CON)

VPS/PDC MODEL ONLY

IC871 LC74785 (IMS)

IC801 STV5400 (I/O SELECTOR)

EXCEPT EA-D EDG 760EDH-O

IC701 LA7537 (SECAM CHROMA SIGNAL PROCESSOR)

SECAM PCB (SEQ-H ONLY)

AUDIO PCB

FRONT PCB

EA-D EDG 760EDH-O ONLY TV OUT WITH IMS

EXCEPT EA-D EDG 760EDH-O (CONV. V)

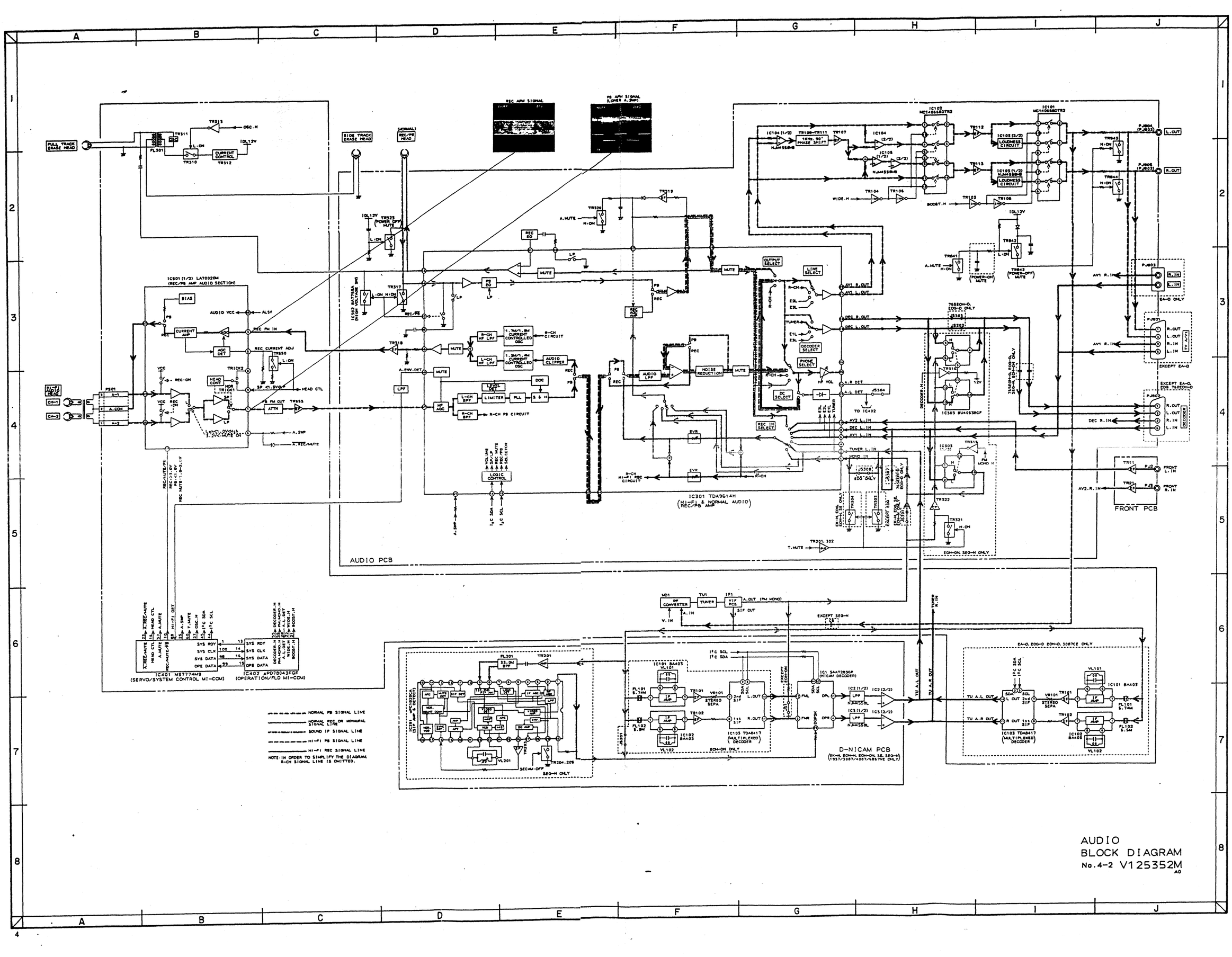
EXCEPT EA-D

EXCEPT EA-D EDG 760EDH-O

SEQ-H ONLY

EDG ONLY

VPS/PDC MODEL ONLY


REC APM SIGNAL
PB APM SIGNAL (LOWER A.SMP)
FULL TRACK ERASE HEAD
SIDE TRACK ERASE HEAD
(NORMAL) REC/PB HEAD
Hi-Fi AUDIO HEAD
IC501 (1/2) LA7002M (REC/PB AMP AUDIO SECTION)
IC301 TDA9614H (Hi-Fi & NORMAL AUDIO REC/PB AMP)
IC401 M37774M9 (SERVO/SYSTEM CONTROL MI-COM)
IC402 μPD78043FGF (OPERATION/FLD MI-COM)
AUDIO PCB
FRONT PCB
D-NICAM PCB
(EX-H, EOH-H, EOH-ON, SE, SEQ-H)
(1937/3087/4087/4857HE ONLY)
SECAM-DFF
SEQ-H ONLY
EOH-ON ONLY
EXCEPT SEQ-H
EXCEPT EA-D
EA-D, EOQ-D EOH-D, 3087CE ONLY
DECODER-H
NORMAL PB SIGNAL LINE
NORMAL REC OR MONAURAL SIGNAL LINE
SOUND IF SIGNAL LINE
Hi-Fi PB SIGNAL LINE
Hi-Fi REC SIGNAL LINE
NOTE: IN ORDER TO SIMPLIFY THE DIAGRAM, R-CH SIGNAL LINE IS OMITTED.
AUDIO
BLOCK DIAGRAM
No.4-2 V125352M
A0

CAPSTAN MOTOR BLOCK (F2QTB24)

DRUM MOTOR BLOCK (F20EL60)

MAIN PCB

IC M56746SP

IC M56747AFP

IC401 M37774M9H
(SYSTEM CONTROL & SERVO MI-COM)

IC501 LA70020M
(AUDIO/VIDEO PRE AMP)

IC501 TDA9614H

IC403 (1/2) NJM4558MB

IC403 (2/2) NJM4558MB

IC432 μPD78043FGF
(OPE MI-COM)

CM PHASE/SPEED ERROR DETECT

DM PHASE/SPEED ERROR DETECT

CM FG IN

CM ERROR OUT

DM ERROR OUT

DM PG IN

DM FG IN

VIDEO HEAD

HI-FI HEAD

CONTROL HEAD

VIDEO ENVELOPE DET
(LOWER: V.SWP)

AUDIO ENVELOPE DET
(LOWER: A.SWP)

REC CTL OUT
(UPPER: CTL+
LOWER: CTL-)

C SYNC IN

UPPER: AUDIO SWP
LOWER VIDEO SWP

CTL AMP OUT

CTL AMP GAIN CONTROL

NOTE: PHOTOGRAPHS EXCEPT [REC CTL OUT] WERE TAKEN DURING PB MODE.
EXCEPT [REC CTL OUT, ENVELOPE DET, SWP] PHOTOGRAPH'S SECOND LINE FROM THE BOTTOM IS DC 0V.

:CAPSTAN MOTOR SPEED CONTROL LINE
:CAPSTAN MOTOR PHASE CONTROL LINE
:DRUM MOTOR SPEED CONTROL LINE
:DRUM MOTOR PHASE CONTROL LINE

SERVO BLOCK DIAGRAM

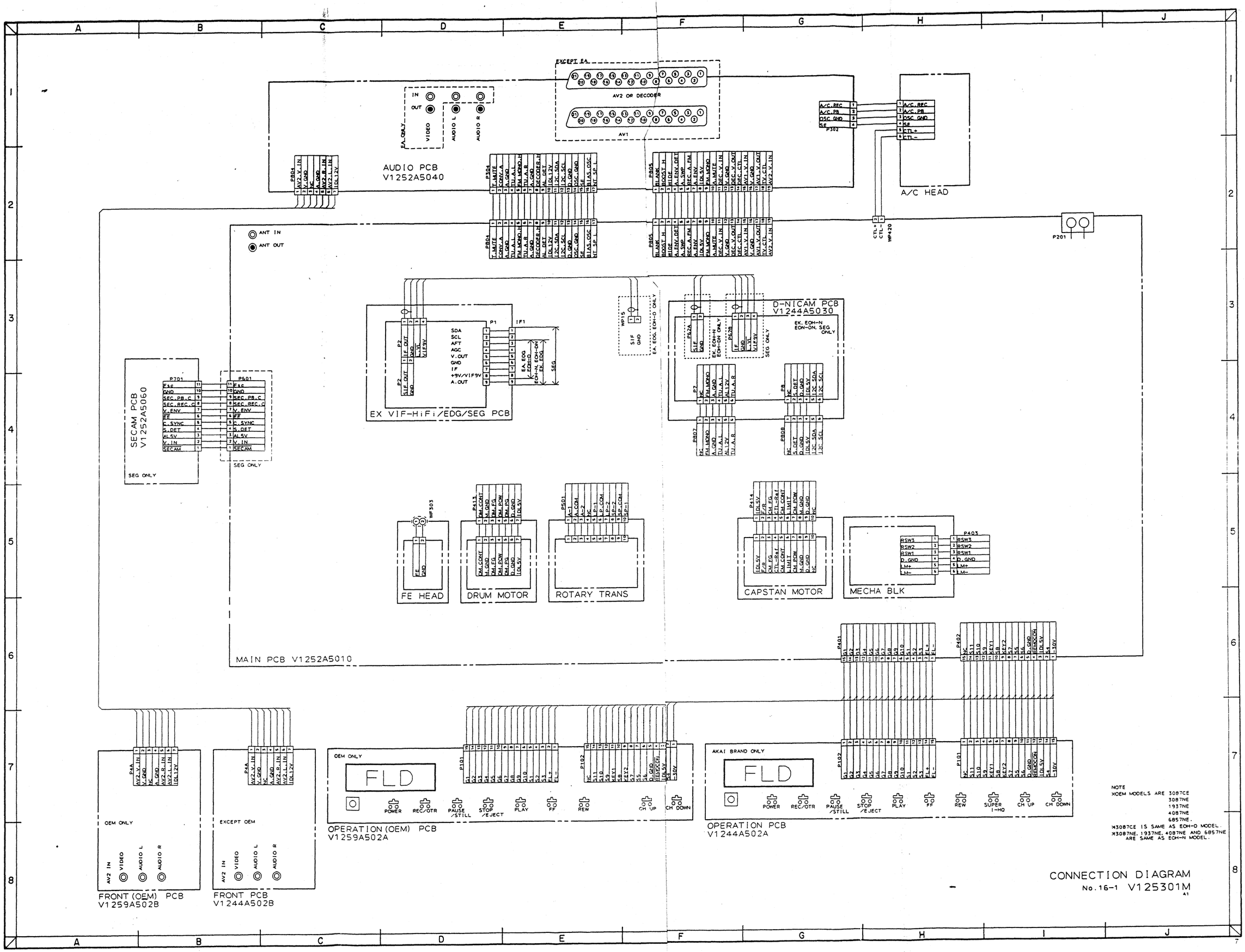
No.4-3 V125353M
A0

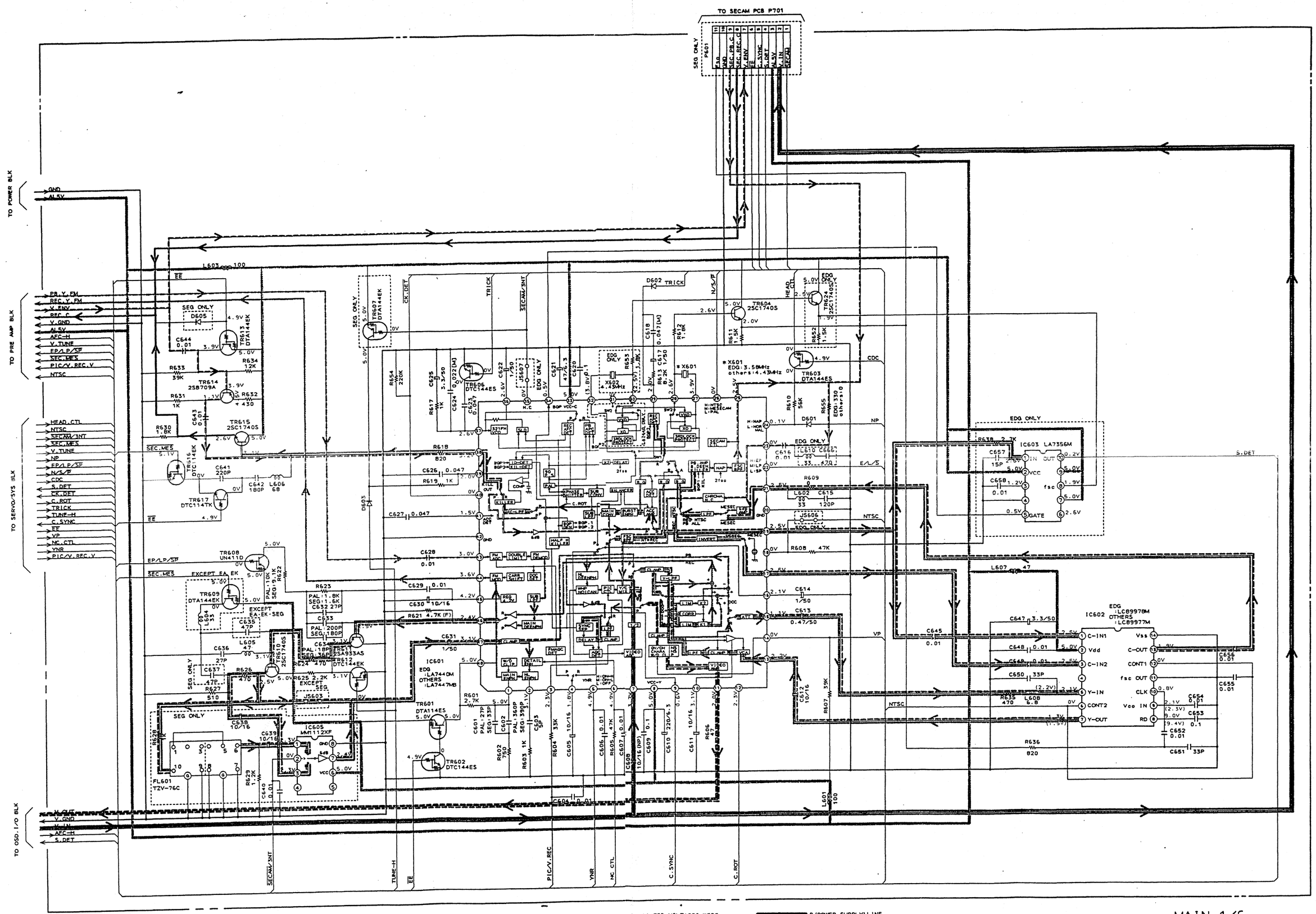
MODE DETECT SWITCH CODE TABLE

MODE / OUTPUT	EJECT	UNLOADED	POWER OFF (WITH CASSETTE)	REVIEW	PAUSE /SLOW	STOP/PLAY & CUE	FF & RWD
RSW 1	L	H	L	H	L	H	H
RSW 2	L	H	H	H	H	L	L
RSW 3	H	L	L	L	H	H	H

OPERATION & SYSCON BLOCK DIAGRAM

No.4-4 V125354M A1


EXCEPT EA
AV2 OR DECODER
AV1
IN
OUT
VIDEO
AUDIO L
AUDIO R
EA ONLY
AUDIO PCB
V1252A5040
P804
P806
P805
P302
A/C HEAD
P201
WP420
ANT IN
ANT OUT
EX VIF-HiFi/EDG/SEG PCB
SDA
SCL
AFT
AGC
V.OUT
GND
IF
+9V/VIF9V
A.OUT
EA. EDG
EON-N, EON-ON
EK. EDG
SEG.
WP15
EA. EDG. EON-O ONLY
D-NICAM PCB
V1244A5030
EK. EON-N
EON-ON, SEG ONLY
SECAM PCB
V1252A5060
SEG ONLY
P701
P501
MAIN PCB V1252A5010
WF303
FE HEAD
DRUM MOTOR
ROTARY TRANS
CAPSTAN MOTOR
MECHA BLK
P413
P501
P414
P403
P401
P402
P101
P102
OEM ONLY
FLD
POWER
REC/OTR
PAUSE /STILL
STOP /EJECT
PLAY
FF
REW
CH UP
CH DOWN
OPERATION (OEM) PCB
V1259A502A
AKAI BRAND ONLY
SUPER I-HQ
OPERATION PCB
V1244A502A
FRONT (OEM) PCB
V1259A502B
EXCEPT OEM
FRONT PCB
V1244A502B
AV2 IN
VIDEO
AUDIO L
AUDIO R
NOTE
XOEM MODELS ARE 3087CE
3087NE
1937NE
4087NE
6857NE.
X3087CE IS SAME AS EOH-O MODEL.
X3087NE, 1937NE, 4087NE AND 6857NE ARE SAME AS EOH-N MODEL.
CONNECTION DIAGRAM
No.16-1 V125301M
A1



MAIN PCB V1252A5010

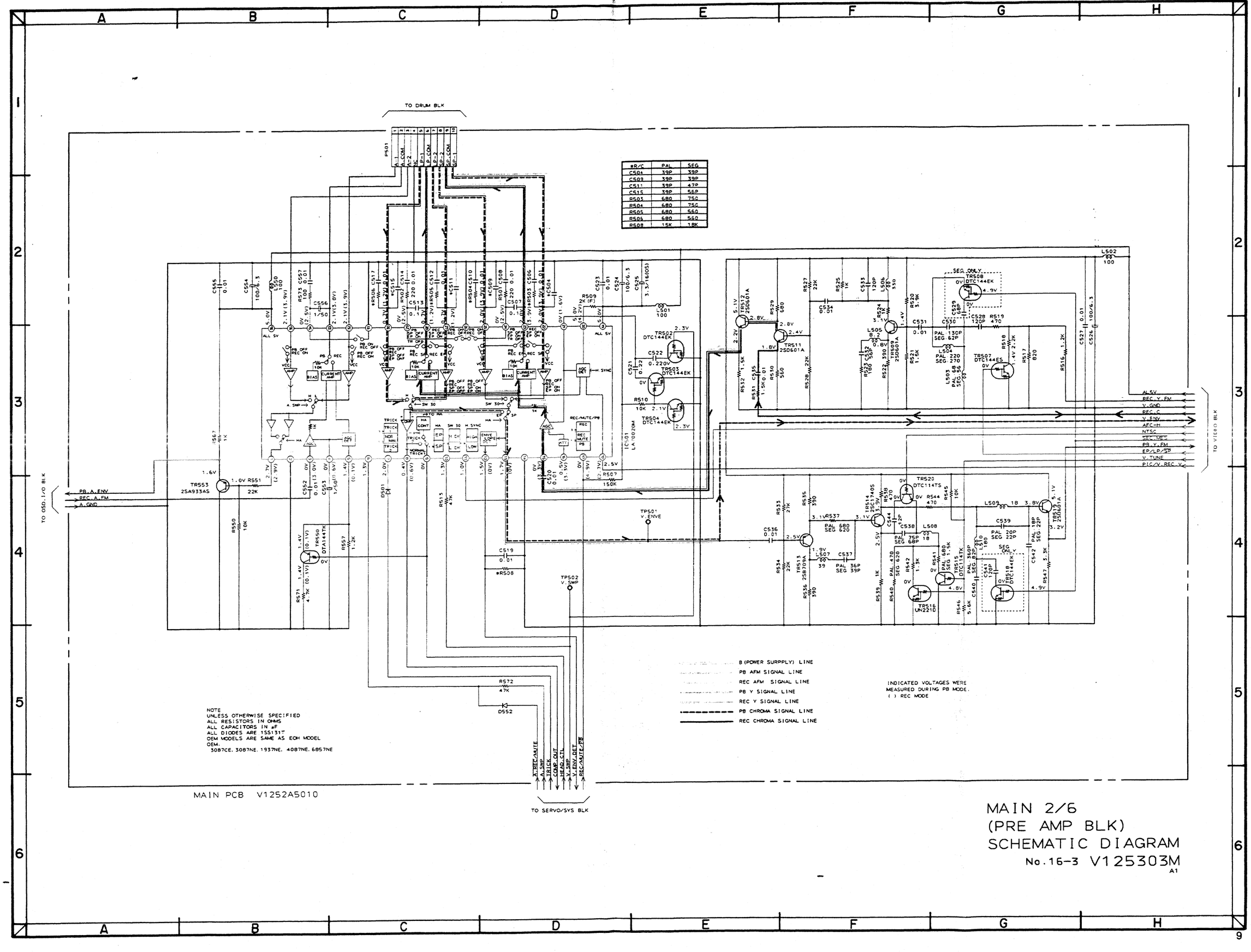
NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
ALL DIODES ARE 1SS131T

OEM MODELS ARE SAME AS EOH MODEL.
OEM:
3087CE 3087NE 1937NE 4087NE 6857NE

INDICATED VOLTAGES WERE MEASURED DURING PB MODE.
(TAPE USED:
PAL COLOUR BAR TAPE)
( ):EDG MODEL

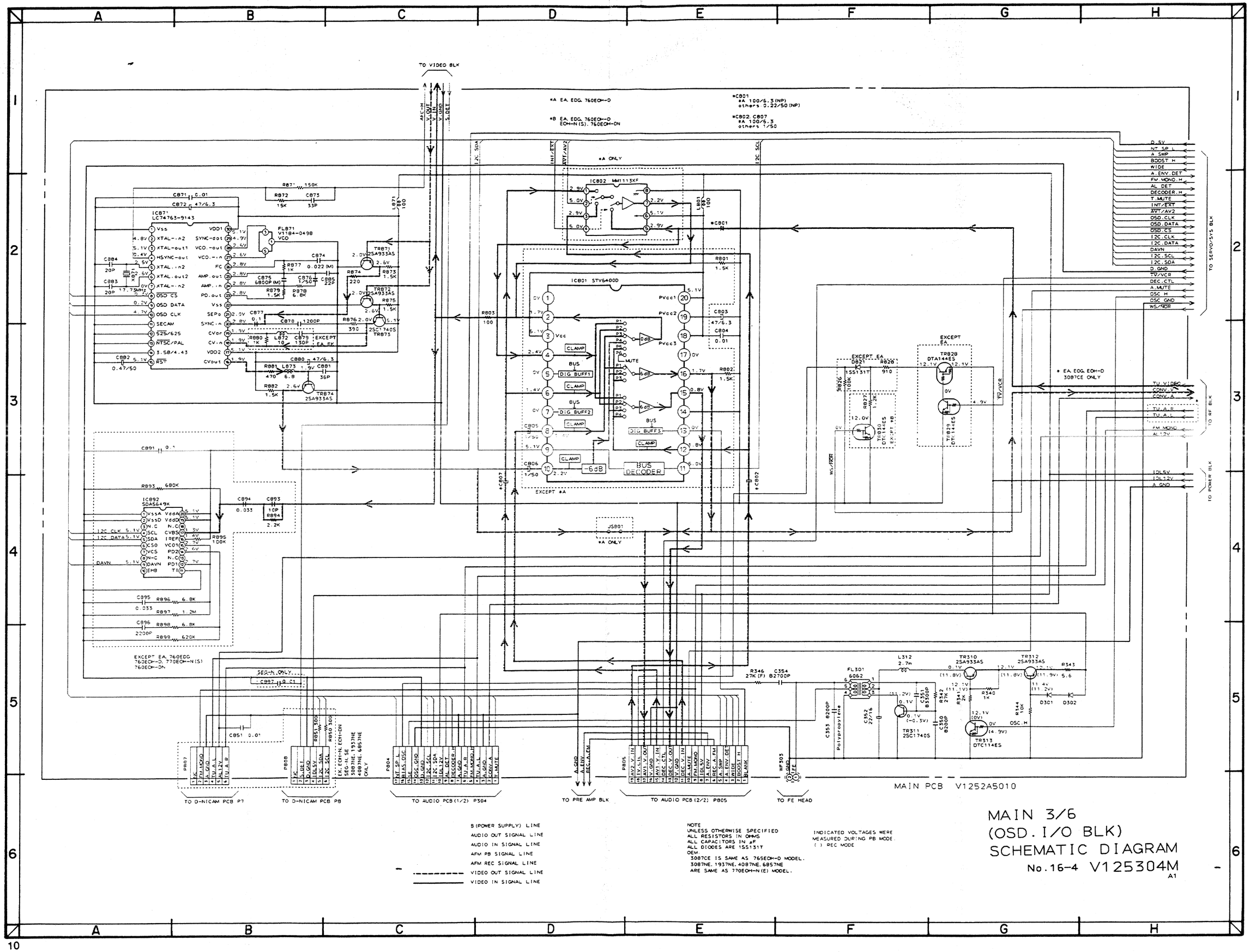
B (POWER SUPPLY) LINE
PB Y SIGNAL LINE
REC Y SIGNAL LINE
PB CHROMA SIGNAL LINE
REC CHROMA SIGNAL LINE

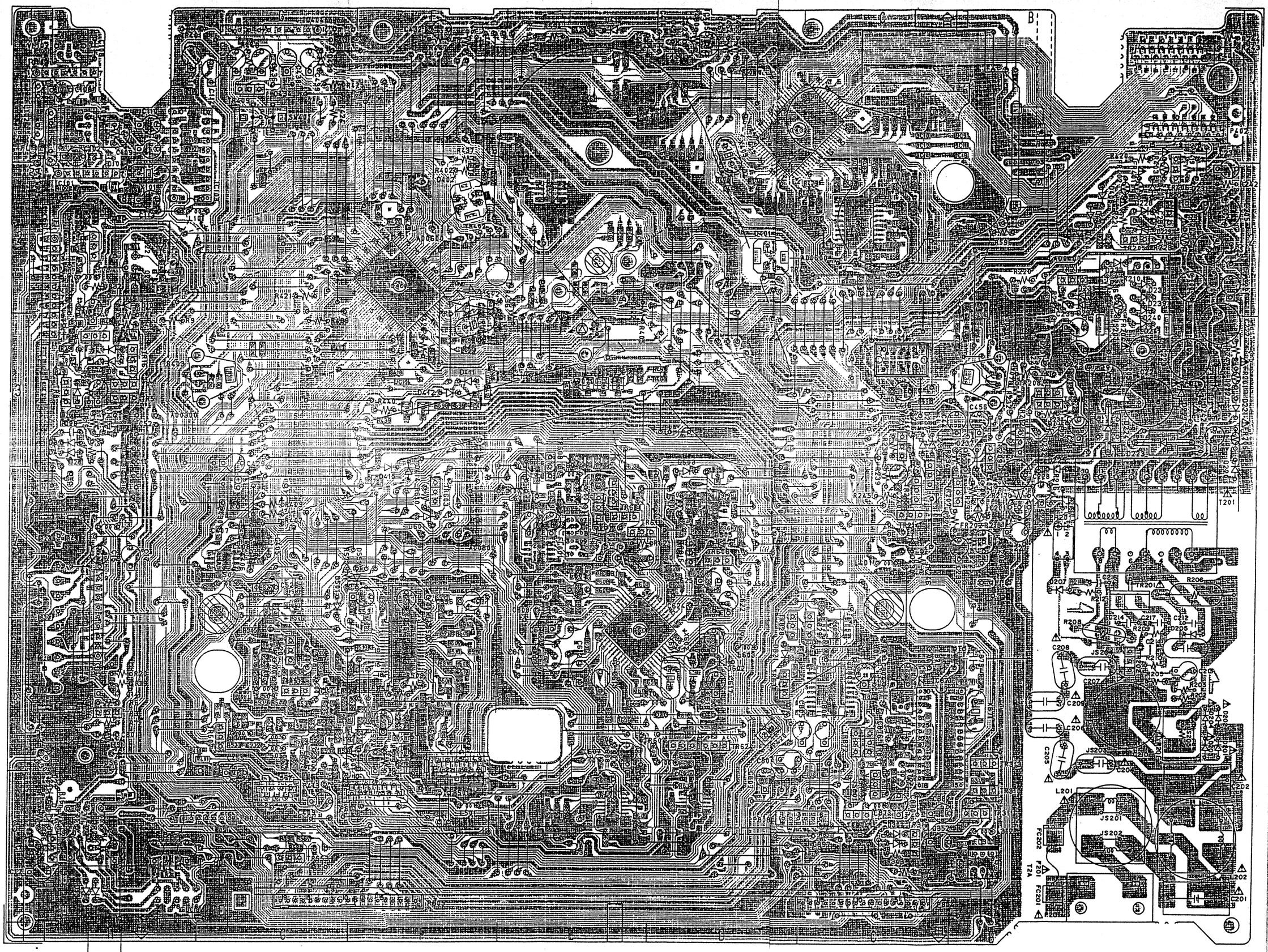
MAIN 1/6
(VIDEO BLK)
SCHEMATIC DIAGRAM
No.16-2 V125302M
A01



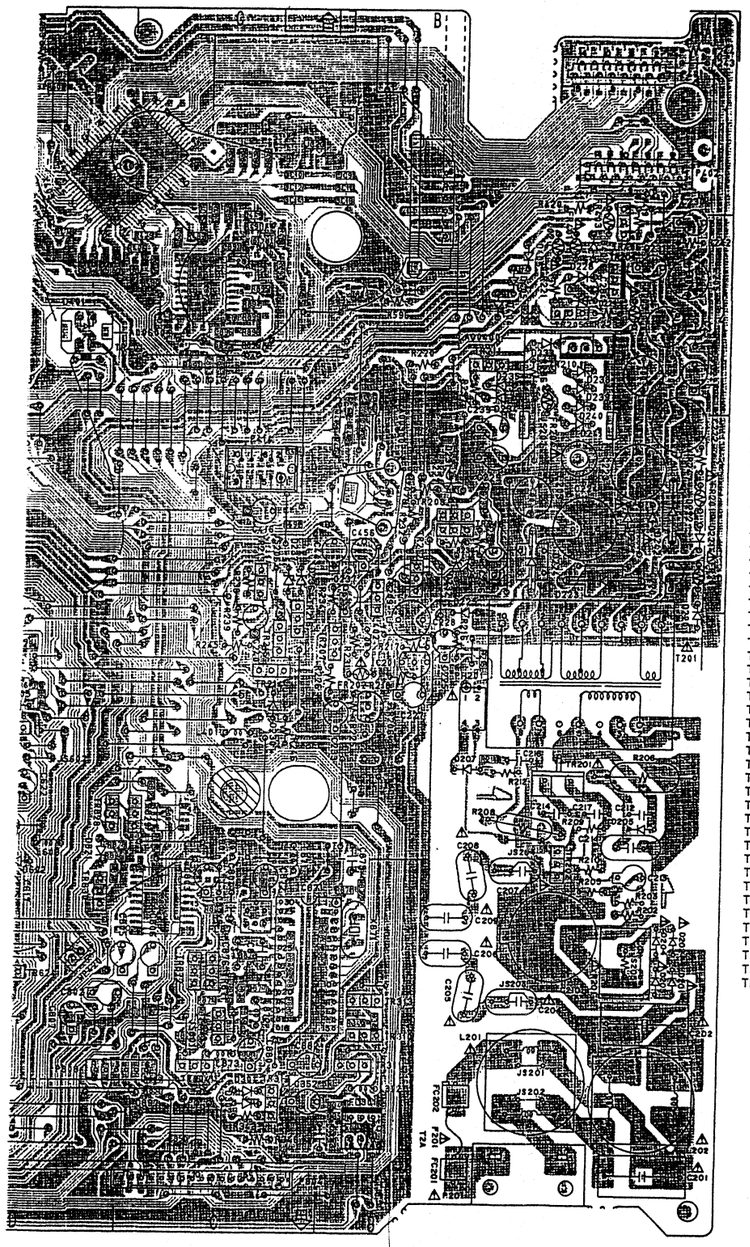
MAIN 2/6 (PRE AMP BLK) SCHEMATIC DIAGRAM

No. 16-3 V125303M
A1


TO VIDEO BLK
A.ENV
V.IN
V.GND
S.DET
*A EA, EDG, 760EOH-D
*B EA, EDG, 760EOH-D
EOH-N (S), 760EOH-DN
*C801
*A 100/6.3 (NP)
others 0.22/50 (NP)
*C802, C807
*A 100/6.3
others 1/50
I2C SDA
INT/EXT
AV1/AV2
I2C SCL
*A ONLY
IC802 M51113XF
IC801 STV6400D
IC871 LC74763-9143
FL871 V1184-0498 VCO
IC892 SDA5649x
JS801
*A ONLY
EXCEPT *A
EXCEPT EA 760EDG
760EOH-D, 770EOH-N(S)
760EOH-DN
SEG-N ONLY
EXCEPT EA
* EA, EDG, EOH-D
3087CE ONLY
TO SERVO/SYS BLK
TO RF BLK
TO POWER BLK
TO D-NICAM PCB P7
TO D-NICAM PCB P8
TO AUDIO PCB (1/2) P804
TO PRE AMP BLK
TO AUDIO PCB (2/2) P805
TO FE HEAD
MAIN PCB V1252A5010
B (POWER SUPPLY) LINE
AUDIO OUT SIGNAL LINE
AUDIO IN SIGNAL LINE
AFM PB SIGNAL LINE
AFM REC SIGNAL LINE
VIDEO OUT SIGNAL LINE
VIDEO IN SIGNAL LINE
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω=W
ALL CAPACITORS IN μF
ALL DIODES ARE 1SS131T
OEM
3087CE IS SAME AS 765EOH-D MODEL.
3087NE, 1937NE, 4087NE, 6857NE
ARE SAME AS 770EOH-N(E) MODEL.
INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
( ) REC MODE
MAIN 3/6
(OSD. I/O BLK)
SCHEMATIC DIAGRAM
No.16-4 V125304M
A1



MAIN PCB V1252A5010



PRINCIPAL PARTS LOCATION

ICs

IC1	H6
IC2	H4,5
IC101	H2
IC102	H1
IC103	H1,2
IC201	B4
IC401	F2
IC402	C,D1
IC403	G4
IC404	G1
IC405	D1
IC406	E2
IC501	F5
IC601	D,E5
IC602	E6
IC603	D6
IC605	E4
IC801	C5
IC802	C5
IC871	B,C5
IC892	C2

TRANSISTORs

TR1	H6
TR2	H6
TR3	H5
TR5	H3
TR6	H6
TR7	H3
TR8	H3
TR9	H3
TR10	H2,3
TR11	H2
TR12	H2
TR13	H2
TR14	H2
TR15	H3
TR16	H3
TR17	H3
TR18	H3
TR101	H2
TR102	H1
TR201	A4
TR202	A5
TR204	A2
TR205	A2
TR206	B4
TR207	B4
TR208	B3
TR209	B3
TR210	A2
TR211	B2
TR212	B3
TR213	C3
TR214	C4
TR215	C4
TR216	C4
TR217	B3
TR218	B3
TR310	B6
TR311	B6
TR312	C6
TR313	B5
TR401	D2
TR402	F2
TR403	G3
TR404	B3
TR405	F3
TR406	A1,2
TR407	B2
TR408	F,G1
TR409	G1
TR410	E1
TR413	F3
TR414	F3
TR415	F3
TR416	E3
TR417	E3
TR418	E3
TR419	C2
TR420	F4
TR502	F5
TR503	F5
TR504	F6
TR507	G5
TR508	G5
TR509	G5
TR511	F,G5
TR512	F,G5
TR513	G5
TR514	G5
TR515	G4
TR516	G4
TR518	G5
TR519	G5
TR520	G5
TR550	F5
TR553	G6
TR601	E4
TR602	E4
TR603	F4
TR604	D5
TR606	D4
TR607	D4
TR608	E3,4
TR609	E3,4
TR610	E4
TR611	E4
TR612	E4
TR613	D4
TR614	D4
TR615	D4
TR616	D4
TR617	D4
TR624	D5
TR828	D4,5
TR829	C4,5
TR830	D5
TR871	C5
TR872	C5
TR873	C6
TR874	C6

CONNECTORs

P201	A,B6
P401	A1
P402	A1
P403	B1,2
P413	G6
P414	C3
P501	F5,6
P601	F6
P804	C6
P805	F,G6
P807	G6
P808	C,D5

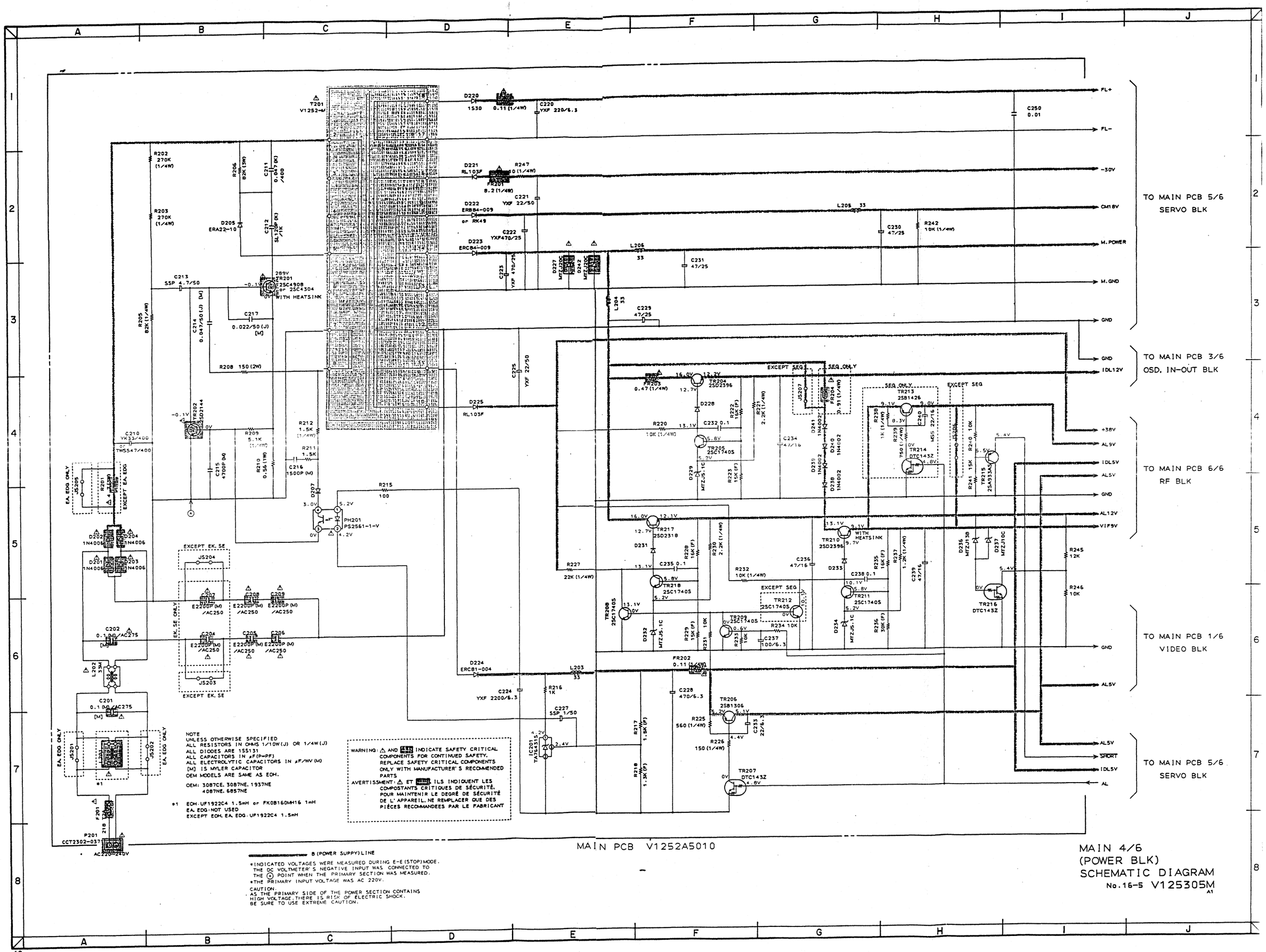
WIREs

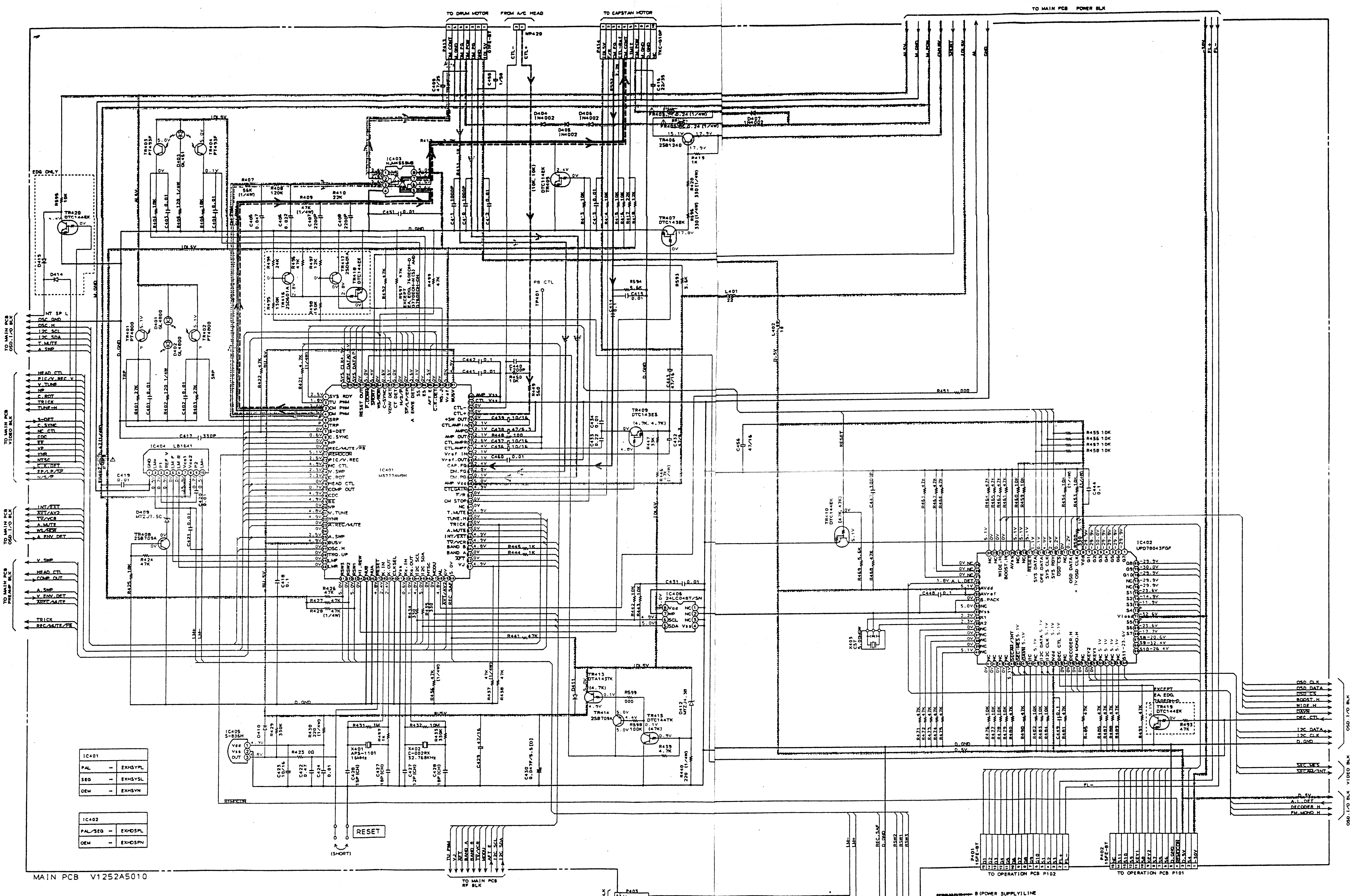
WP15	H1,2
WP303	G5
WP420	D5

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT


T201 V1252-W
D220 1S30
R247 0 (1/4W)
FR201 8.2 (1/4W)
D221 RL103F
D222 ERB84-009 or RK49
D223 ERC84-009
C220 YXF 220/6.3
C221 YXF 22/50
C222 YXF470/25
C223 YXF 470/25
C225 YXF 22/50
C250 0.01
C230 47/25
C231 47/25
C229 47/25
R242 10K (1/4W)
L205 33
L206 33
L204 33
FL+
FL-
-30V
CM18V
M.POWER
M.GND
GND
TO MAIN PCB 5/6
SERVO BLK
GND
IDL12V
TO MAIN PCB 3/6
OSD, IN-OUT BLK
FR203 0.47 (1/4W)
TR204 2SD2596
EXCEPT SEG1
SEG ONLY
JS207
FR204 0.91 (1/4W)
SEG ONLY
TR213 2SB1426
EXCEPT SEG
D228
R222 15K (F)
R221 2.2K (1/4W)
R220 10K (1/4W)
C232 0.1
TR205 2SC1740S
D229 MTZJ5.1C
R223 15K (F)
C234 47/16
D241 1N4002
D240 1N4002
D239 1N4002
D238 1N4002
R238 1K (1/4W)
R239 750 (1/4W)
C240 455 22/16
TR214 DTC143Z
JS206
TR215 2SA933AS
R241 15K
R24-0 10K
+38V
AL9V
IDL5V
AL5V
GND
AL12V
VIF9V
TO MAIN PCB 6/6
RF BLK
TR217 2SD2318
D231
R227 22K (1/4W)
C235 0.1
TR218 2SC1740S
R230 2.2K (1/4W)
R232 10K (1/4W)
TR210 2SD2396
WITH HEATSINK
D233
C236 47/16
C238 0.1
TR211 2SC1740S
R235 16K (F)
R237 1.2K (1/4W)
C239 47/16
D236 MTZJ3B
D237 MTZJ10C
TR216 DTC143Z
R245 12K
R246 10K
EXCEPT SEG
TR212 2SC1740S
R234 10K
TR209 2SC1740S
TR208 2SC1740S
D232 MTZJ5.1C
R229 15K (F)
R231 10K
R233 10K
C237 100/6.3
D234 MTZJ5.1C
R236 30K (F)
GND
AL5V
TO MAIN PCB 1/6
VIDEO BLK
FR202 0.11 (1/4W)
TR206 2SB1306
C228 470/6.3
R225 560 (1/4W)
R226 150 (1/4W)
C233 22/6.3
AL5V
SHORT
IDL5V
AL
TO MAIN PCB 5/6
SERVO BLK
TR207 DTC143Z
R217 1.5K (F)
R218 1.3K (F)
D224 ERC81-004
L203 33
C224 YXF 2200/6.3
R216 1K
C227 SSP 1/50
IC231 TA7805S
R202 270K (1/4W)
R203 270K (1/4W)
R206 B2K (3W)
C211 0.01 (K) /400
C212 SL1/0.1 (K) /1K
D205 ERA22-10
C213 SSP 4.7/50
C214 0.047/50 (J) [M]
C217 0.022/50 (J) [M]
R205 B2K (1/4W)
R208 150 (2W)
TR201 2SC4908 or 2SC4304 WITH HEATSINK
TR202 2SD2144
C210 YK33/400 or TWSS47/400
R209 5.1K (1/4W)
C215 4700P (M)
R210 0.56 (1W)
R212 1.5K (1/4W)
R211 1.5K
C216 1500P (M)
R215 100
D207
PH201 PS2561-1-V
D202 1N4006
D204 1N4006
D201 1N4006
D203 1N4006
EXCEPT EA. EDG
EA. EDG ONLY JS205
R201 4.7 (1/2W) FPW16
EXCEPT EK. SE
JS204
C207 E2200P (M) /AC250
C208 E2200P (M) /AC250
C209 E2200P (M) /AC250
EK. SE ONLY
C204 E2200P (M) /AC250
C205 E2200P (M) /AC250
C206 E2200P (M) /AC250
JS203
EXCEPT EK. SE
C202 0.1/400 /AC275 [M]
L202 3.3M
C201 0.1/400 /AC275 [M]
EA. EDG ONLY JS201
EA. EDG ONLY JS202
L201
*1
F201 2A 125V
P201 CCT2302-037
AC220-240V
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W(J) OR 1/4W(J)
ALL DIODES ARE 1SS131
ALL CAPACITORS IN μF(P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV (M)
[M] IS MYLER CAPACITOR
OEM MODELS ARE SAME AS EOH.
OEM: 3087CE, 3087NE, 1937NE
4087NE, 6857NE
*1 EOH: UF1922C4 1.5mH or FK0B160MH16 1mH
EA. EDG: NOT USED
EXCEPT EOH, EA. EDG: UF1922C4 1.5mH
WARNING: △ AND ▬▬ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS
AVERTISSMENT: △ ET ▬▬ ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT
B (POWER SUPPY) LINE
*INDICATED VOLTAGES WERE MEASURED DURING E-E (STOP) MODE. THE DC VOLTMETER'S NEGATIVE INPUT WAS CONNECTED TO THE Ⓐ POINT WHEN THE PRIMARY SECTION WAS MEASURED.
*THE PRIMARY INPUT VOLTAGE WAS AC 220V.
CAUTION:
AS THE PRIMARY SIDE OF THE POWER SECTION CONTAINS HIGH VOLTAGE. THERE IS RISK OF ELECTRIC SHOCK. BE SURE TO USE EXTREME CAUTION.
MAIN PCB V1252A5010
MAIN 4/6
(POWER BLK)
SCHEMATIC DIAGRAM
No.16-5 V125305M
A1



IC401		
PAL	–	EXHSYPL
SEG	–	EXHSYSL
OEM	–	EXHSYN

IC402		
PAL/SEG	–	EXHDSPL
OEM	–	EXHDSPN

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
ALL INDUCTORS IN μH
[M] IS MYLAR CAPACITOR
ALL DIODES ARE 1SS131T

NOTE:
THOSE OEMS ARE BELOW.
HS087CE IS SAME AS EOH-D.
HS087NE, 1937NE, 4087NE AND 6857NE ARE SAME AS EOH-N.

WARNING: △ AND ▭ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSMENT: △ ET ▭ . ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

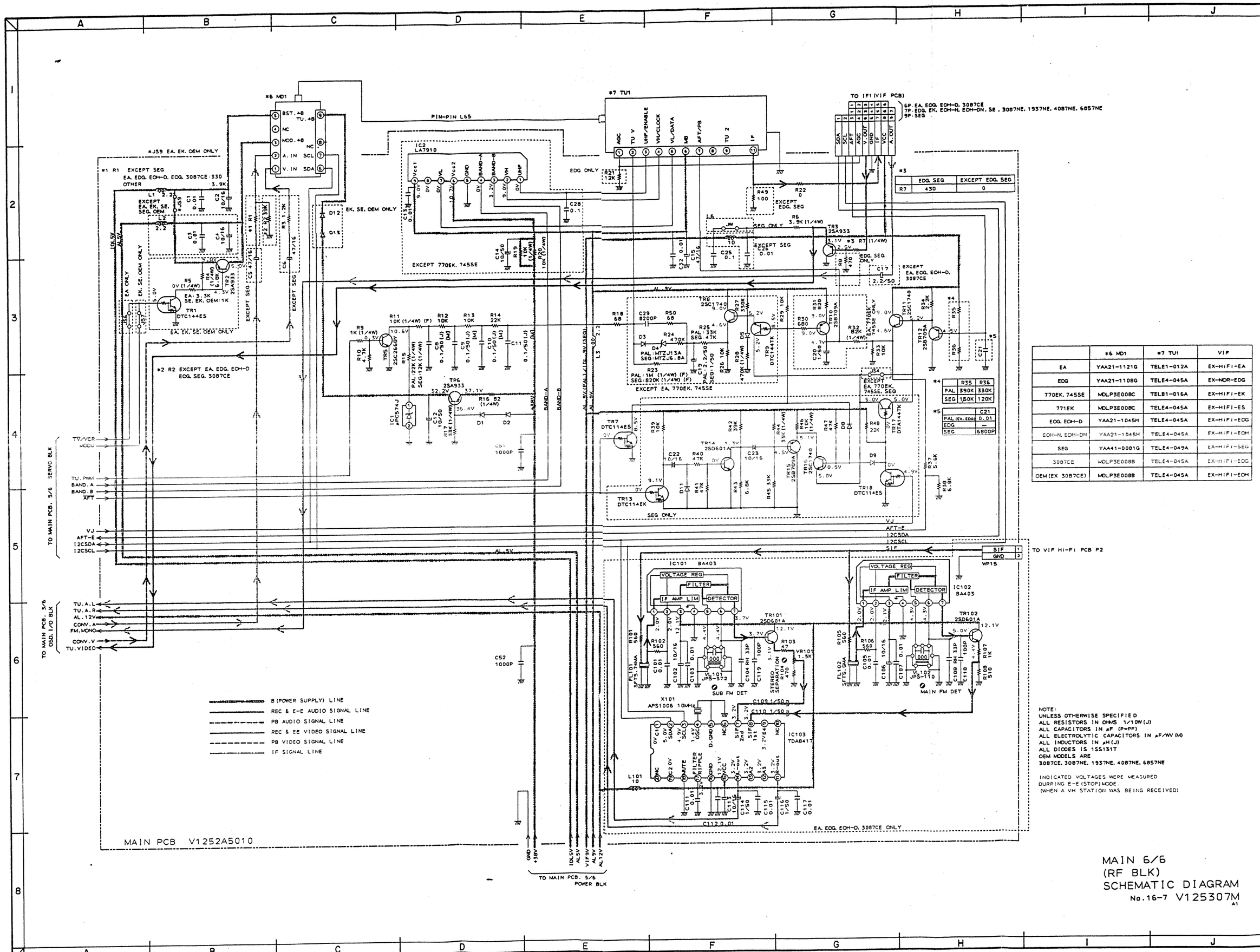
B (POWER SUPPLY) LINE
DRUM MOTOR PHASE CONTROL LINE
DRUM MOTOR SPEED CONTROL LINE
CAPSTAN MOTOR PHASE CONTROL LINE
CAPSTAN MOTOR SPEED CONTROL LINE

INDICATED VOLTAGES WERE MEASURED DURING PB MODE. (TAPE SPEED SP)

MAIN 5/6 (SERVO/SYSCON BLK) SCHEMATIC DIAGRAM

No.16-6 V125306M

A0



	*6 MD1	*7 TU1	VIF
EA	YAA21-1121G	TELE1-012A	EX-HIFI-EA
EDG	YAA21-1108G	TELE4-045A	EX-NOR-EDG
770EK, 745SE	MDLP3E008C	TELB1-016A	EX-HIFI-EK
771EK	MDLP3E008C	TELE4-045A	EX-HIFI-ES
EDG, EOH-D	YAA21-1045H	TELE4-045A	EX-HIFI-EOG
EOH-N, EOH-DN	YAA21-1045H	TELE4-045A	EX-HIFI-EOH
SEG	YAA41-0081G	TELE4-049A	EX-HIFI-SEG
3087CE	MDLP3E008B	TELE4-045A	EX-HIFI-EOG
OEM (EX 3087CE)	MDLP3E008B	TELE4-045A	EX-HIFI-EOH

*3	EDG, SEG	EXCEPT EDG, SEG
R7	430	0

*4	R35	R36
PAL	390K	330K
SEG	150K	120K

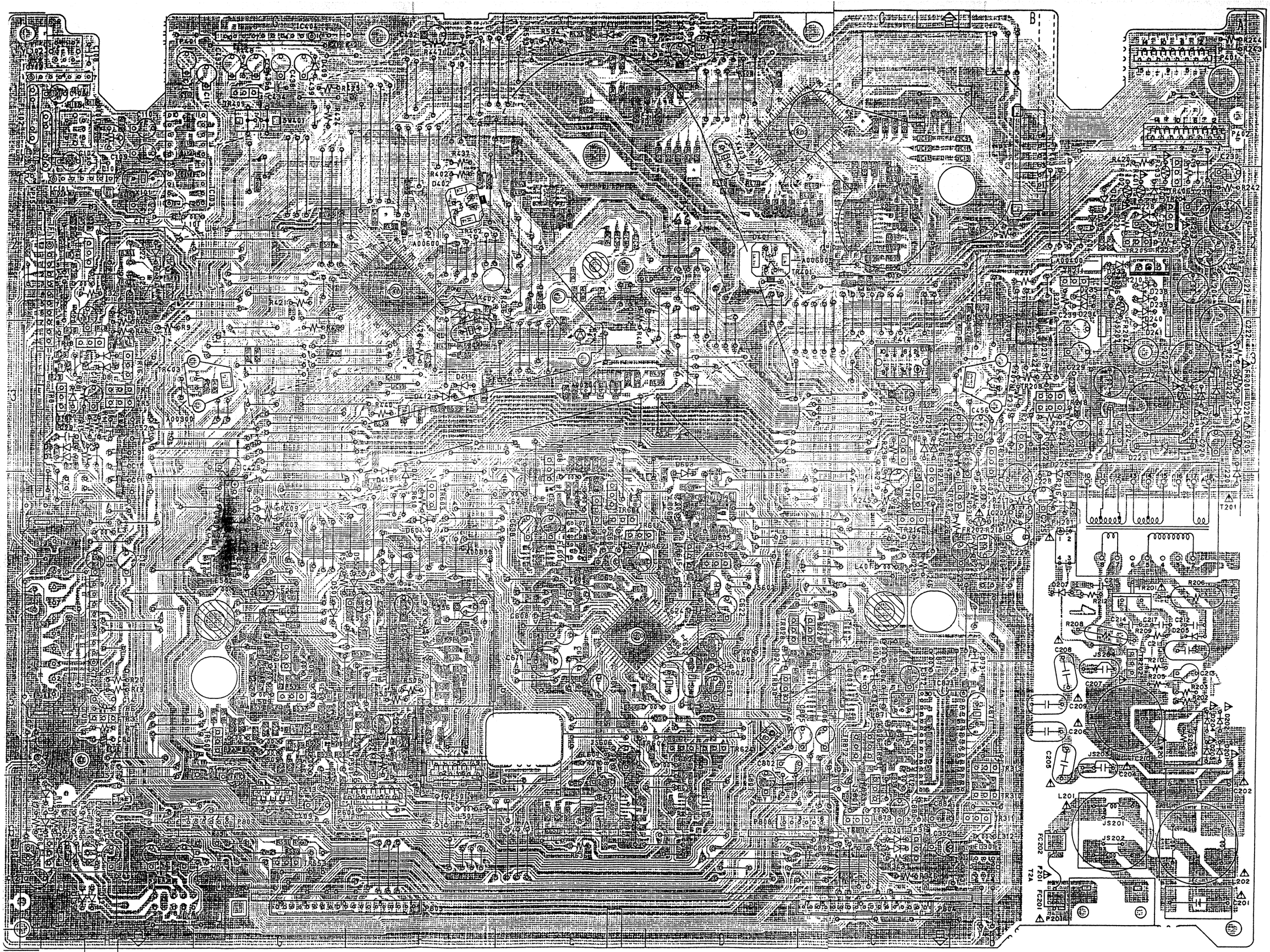
*5	C21
PAL (EX. EDG)	0.01
EDG	—
SEG	6800P

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W(J)
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV (M)
ALL INDUCTORS IN μH (J)
ALL DIODES IS 1SS131T
OEM MODELS ARE
3087CE, 3087NE, 1937NE, 4087NE, 6857NE

INDICATED VOLTAGES WERE MEASURED DURRING E-E (STOP) MODE.
(WHEN A VH STATION WAS BEING RECEIVED)

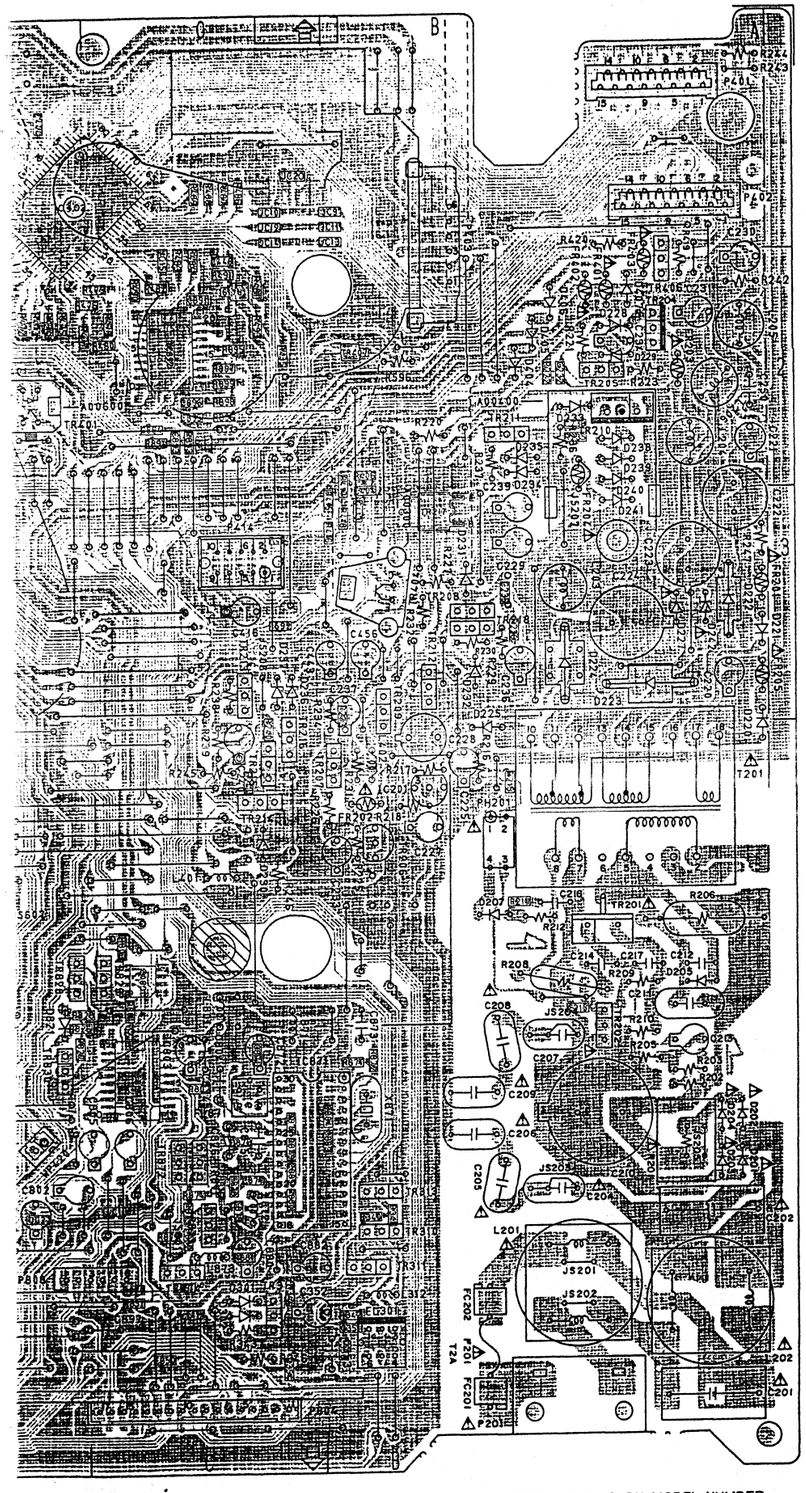
MAIN 6/6 (RF BLK) SCHEMATIC DIAGRAM

No.16-7 V125307M A1



MAIN PCB V1252A5010

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.



PRINCIPAL PARTS LOCATION

ICs

IC1	H6
IC2	H4,5
IC101	H2
IC102	H1
IC103	H1,2
IC201	B4
IC401	F2
IC402	C,D1
IC403	G4
IC404	G1
IC405	D1
IC406	E2
IC501	F5
IC601	D,E5
IC602	E6
IC603	D6
IC605	E4
IC801	C5
IC802	C5
IC871	B,C5
IC892	C2

TRANSISTORs

TR1	H6
TR2	H6
TR3	H5
TR5	H3
TR6	H6
TR7	H3
TR8	H3
TR9	H3
TR10	H2,3
TR11	H2
TR12	H2
TR13	H2
TR14	H2
TR15	H3
TR16	H3
TR17	H3
TR18	H3
TR101	H2
TR102	H1
TR201	A4
TR202	A5
TR204	A2
TR205	A2
TR206	B4
TR207	B4
TR208	B3
TR209	B3
TR210	A2
TR211	B2
TR212	B3
TR213	C3
TR214	C4
TR215	C4
TR216	C4
TR217	B3
TR218	B3
TR310	B6
TR311	B6
TR312	C6
TR313	B5
TR401	D2
TR402	F2
TR403	G3
TR404	B3
TR405	F3
TR406	A1,2
TR407	B2
TR408	F,G1
TR409	G1
TR410	E1
TR413	F3
TR414	F3
TR415	F3
TR416	E3
TR417	E3
TR418	E3
TR419	C2
TR420	F4
TR502	F5
TR503	F5
TR504	F6
TR507	G5
TR508	G5
TR509	G5
TR511	F,G5
TR512	F,G5
TR513	G5
TR514	G5
TR515	G4
TR516	G4
TR518	G5
TR519	G5
TR520	G5
TR550	F5
TR553	G6
TR601	E4
TR602	E4
TR603	F4
TR604	D5
TR606	D4
TR607	D4
TR608	E3,4
TR609	E3,4
TR610	E4
TR611	E4
TR612	E4
TR613	D4
TR614	D4
TR615	D4
TR616	D4
TR617	D4
TR624	D5
TR828	D4,5
TR829	C4,5
TR830	D5
TR871	C5
TR872	C5
TR873	C6
TR874	C6

CONNECTORs

P201	A,B6
P401	A1
P402	A1
P403	B1,2
P413	G6
P414	C3
P501	F5,6
P601	F6
P804	C6
P805	F,G6
P807	G6
P808	C,D5

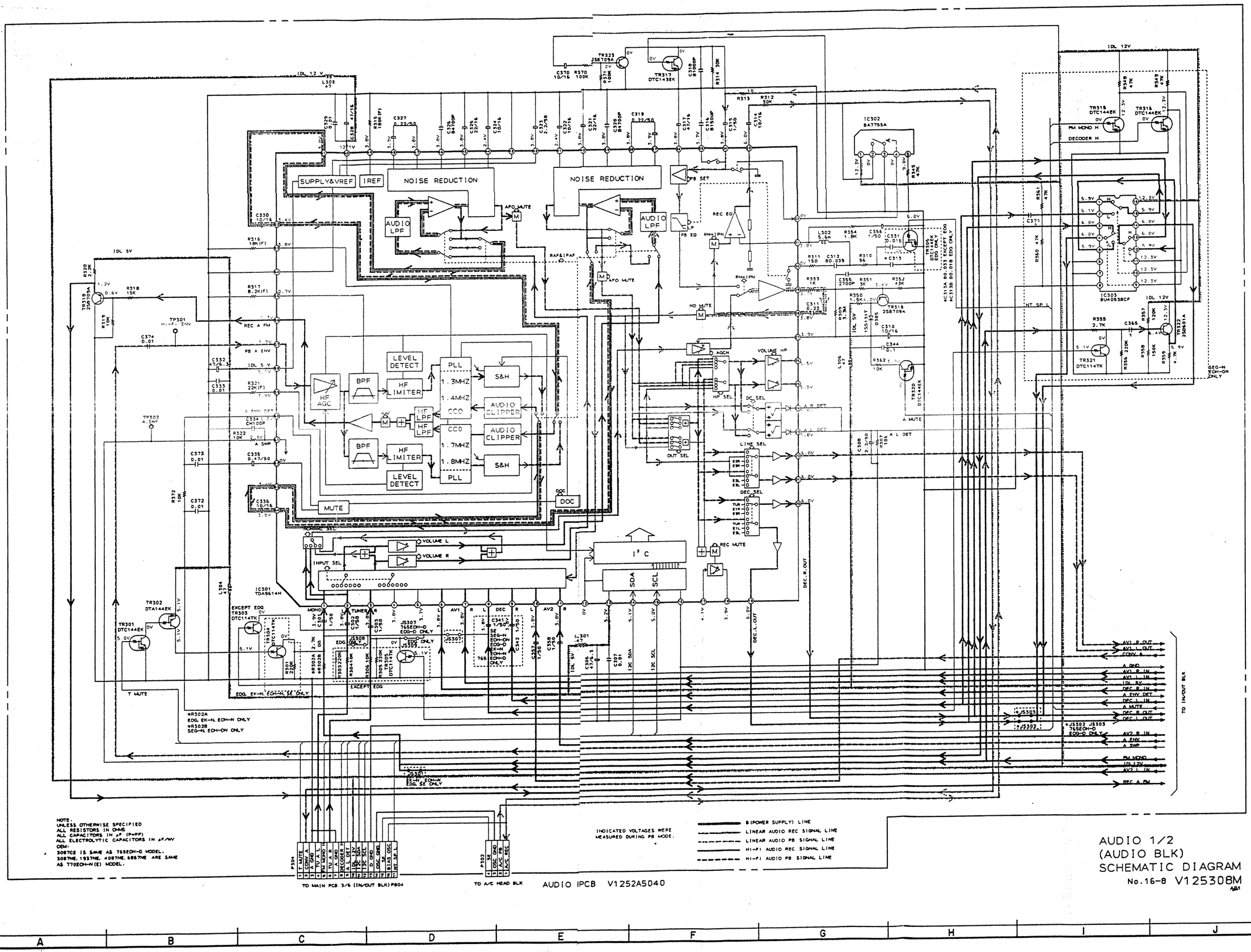
WIREs

WP15	H1,2
WP303	G5
WP420	D5

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT



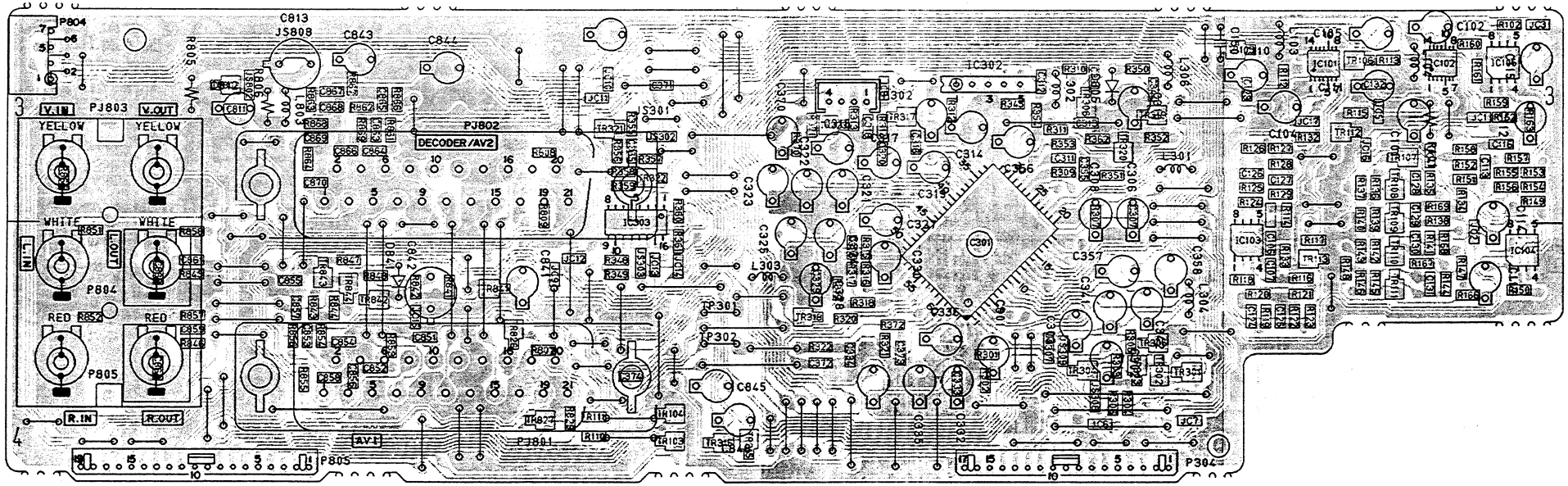
NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS.
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
DEM:
* 3087CE IS SAME AS 765EOH-D MODEL.
3087NE, 1937NE, 4087NE, 6857NE ARE SAME AS 770EOH-N (E) MODEL.

INDICATED VOLTAGES WERE MEASURED DURING PB MODE.

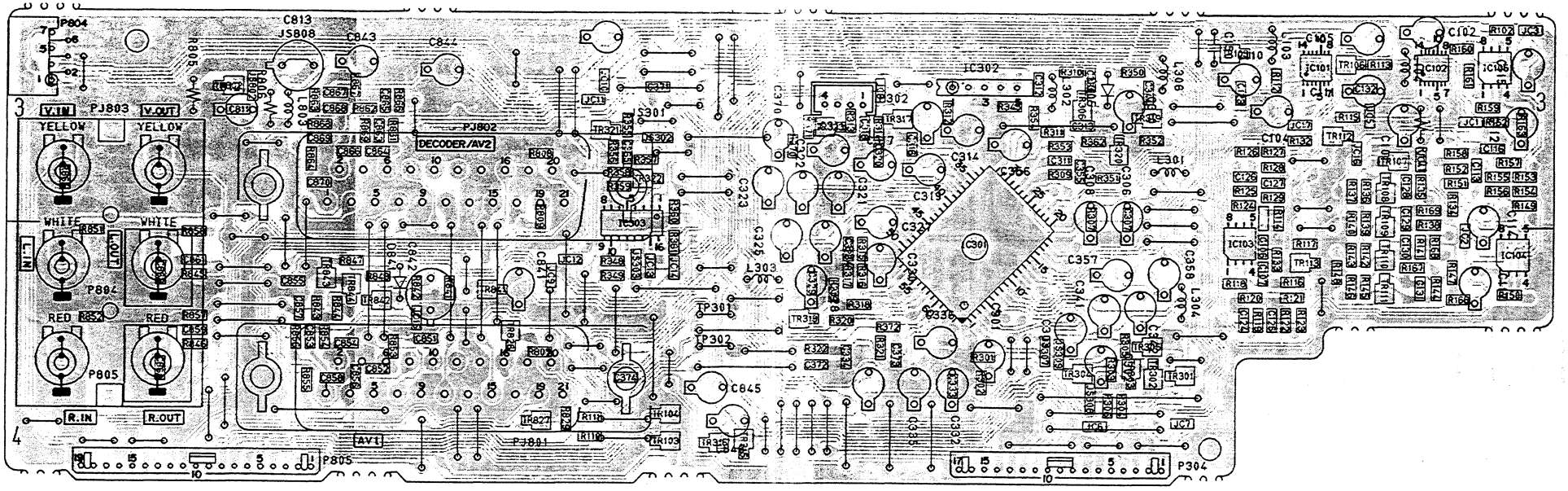
B (POWER SUPPLY) LINE
LINEAR AUDIO REC SIGNAL LINE
LINEAR AUDIO PB SIGNAL LINE
HI-FI AUDIO REC SIGNAL LINE
HI-FI AUDIO PB SIGNAL LINE

AUDIO 1/2 (AUDIO BLK) SCHEMATIC DIAGRAM

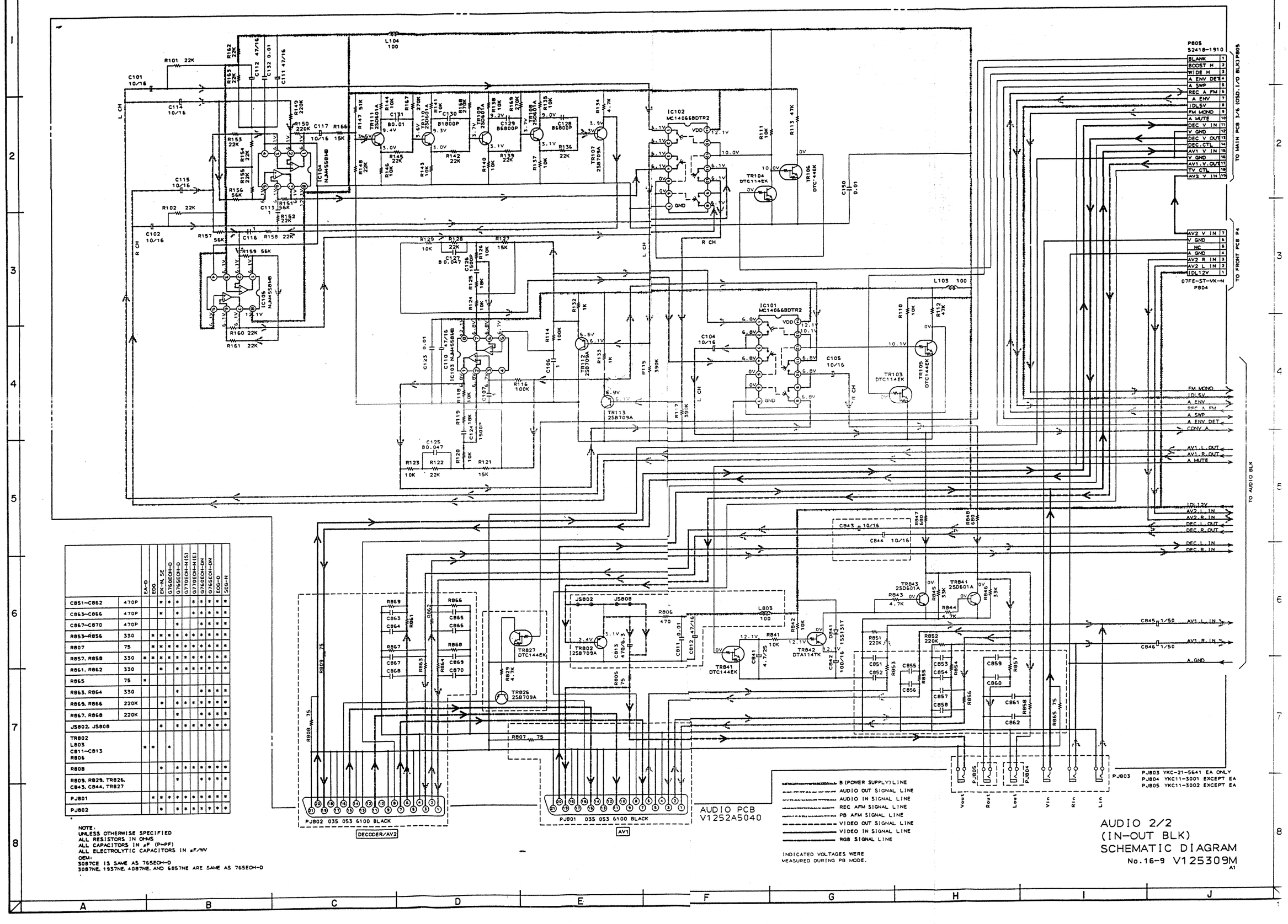
No.16-8 V125308M



AUDIO PCB V1252A5040

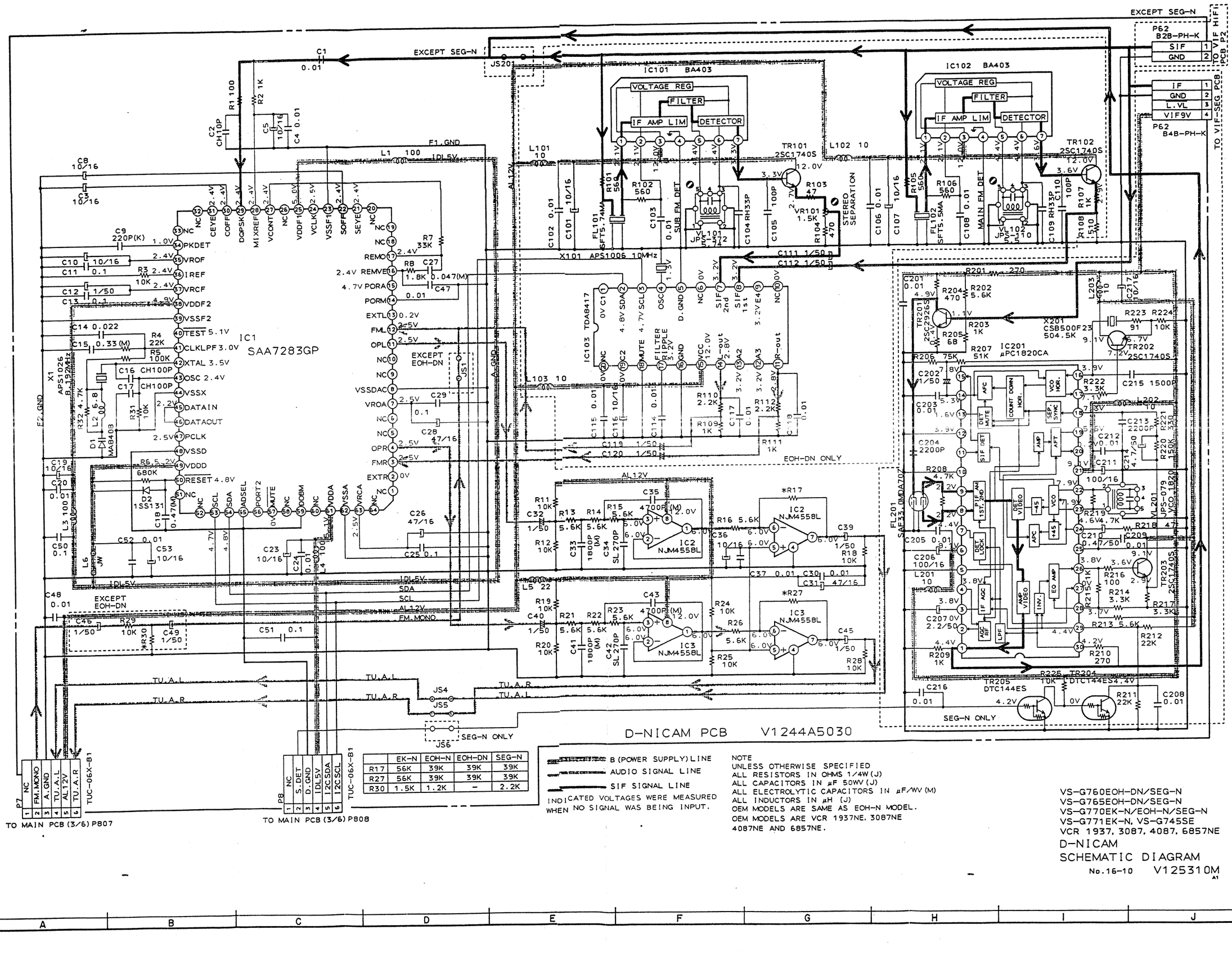


AUDIO PCB VI252A5040



		EA-D	EDG	EK-N, SE	G76EOH-D	G765EOH-D	G770EOH-N(S)	G770EOH-N(E)	G765EOH-ON	G765EOH-ON	EOG-D	SEG-N
C851–C862	470P			*	*	*		*	*	*	*	*
C863–C866	470P			*		*		*	*	*	*	*
C867–C870	470P					*			*	*	*	*
R853–R856	330		*	*	*	*	*	*	*	*	*	*
R807	75		*	*	*	*	*	*	*	*	*	*
R857, R858	330	*	*	*	*	*	*	*	*	*	*	*
R861, R862	330			*		*	*	*	*	*	*	*
R865	75	*										
R863, R864	330					*			*	*	*	*
R869, R866	220K			*		*	*	*	*	*	*	*
R867, R868	220K					*			*	*	*	*
JS802, JS808				*		*	*	*	*	*	*	*
TR802 L803 C811–C813 R806		*	*	*								
R808				*		*	*	*	*	*	*	*
R809, R829, TR826, C843, C844, TR827						*			*	*	*	*
PJ801			*	*	*	*	*	*	*	*	*	*
PJ802				*		*	*	*	*	*	*	*

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV
OEM:
3087CE IS SAME AS 765EOH-D
3087NE, 1937NE, 4087NE, AND 6857NE ARE SAME AS 765EOH-D



	EK-N	EOH-N	EOH-DN	SEG-N
R17	56K	39K	39K	39K
R27	56K	39K	39K	39K
R30	1.5K	1.2K	–	2.2K

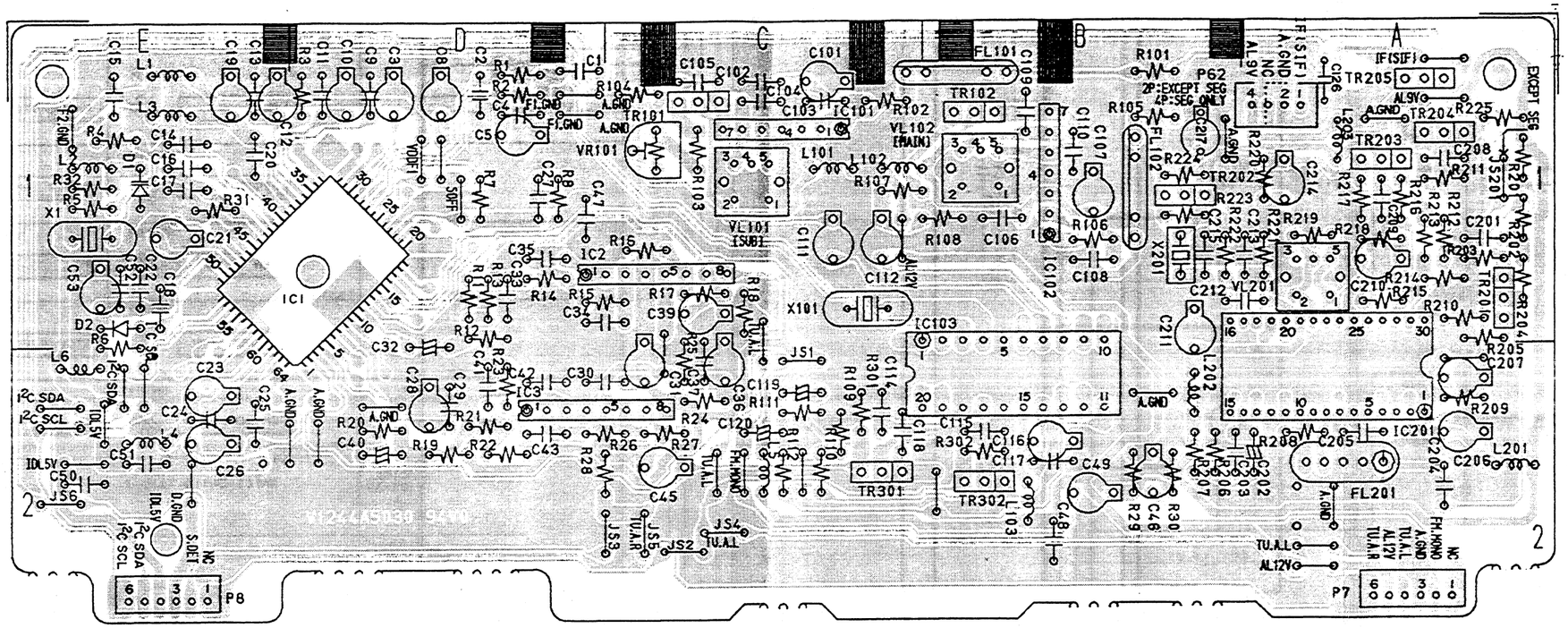
B (POWER SUPPLY) LINE
AUDIO SIGNAL LINE
SIF SIGNAL LINE

INDICATED VOLTAGES WERE MEASURED WHEN NO SIGNAL WAS BEING INPUT.

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50WV (J)
ALL ELECTROLYTIC CAPACITORS IN μF/WV (M)
ALL INDUCTORS IN μH (J)
OEM MODELS ARE SAME AS EOH-N MODEL.
OEM MODELS ARE VCR 1937NE, 3087NE
4087NE AND 6857NE.

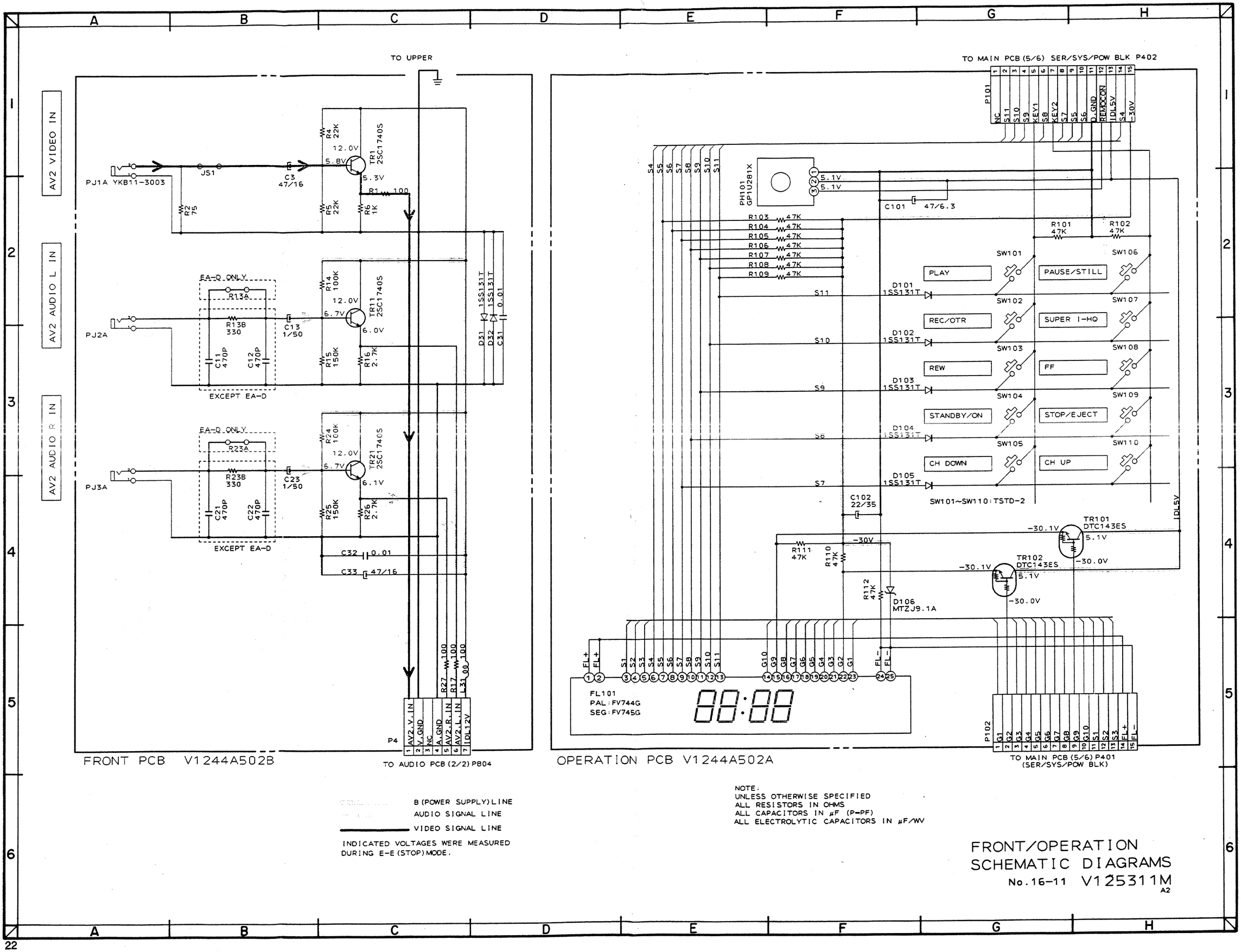
D-NICAM PCB V1244A5030

VS-G760EOH-DN/SEG-N
VS-G765EOH-DN/SEG-N
VS-G770EK-N/EOH-N/SEG-N
VS-G771EK-N, VS-G745SE
VCR 1937, 3087, 4087, 6857NE
D-NICAM
SCHEMATIC DIAGRAM
No.16-10 V125310M A1



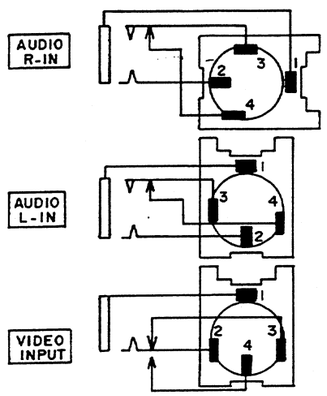
D-NICAM PCB V1244A5030(NI)

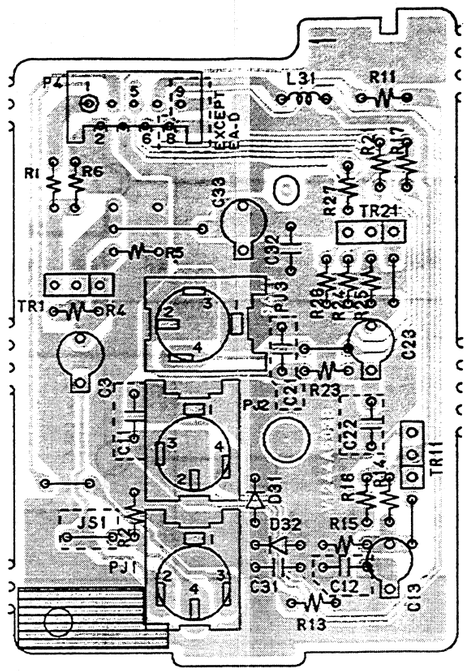
NOTE: PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.



FRONT/OPERATION SCHEMATIC DIAGRAMS

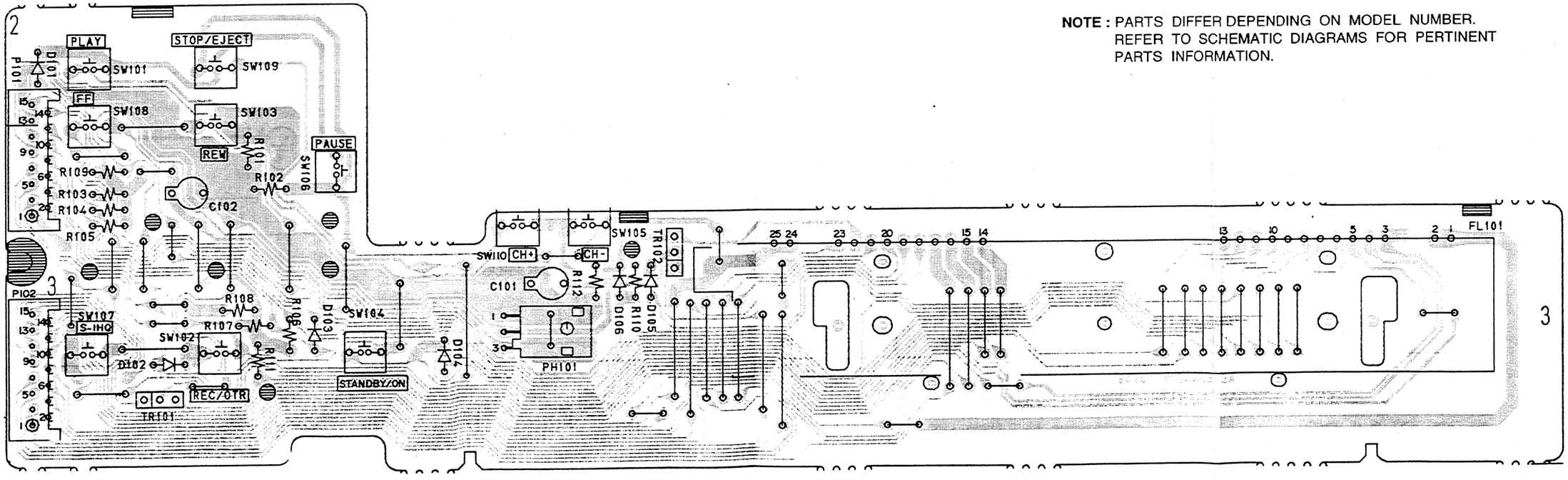
No.16-11 V125311M A2



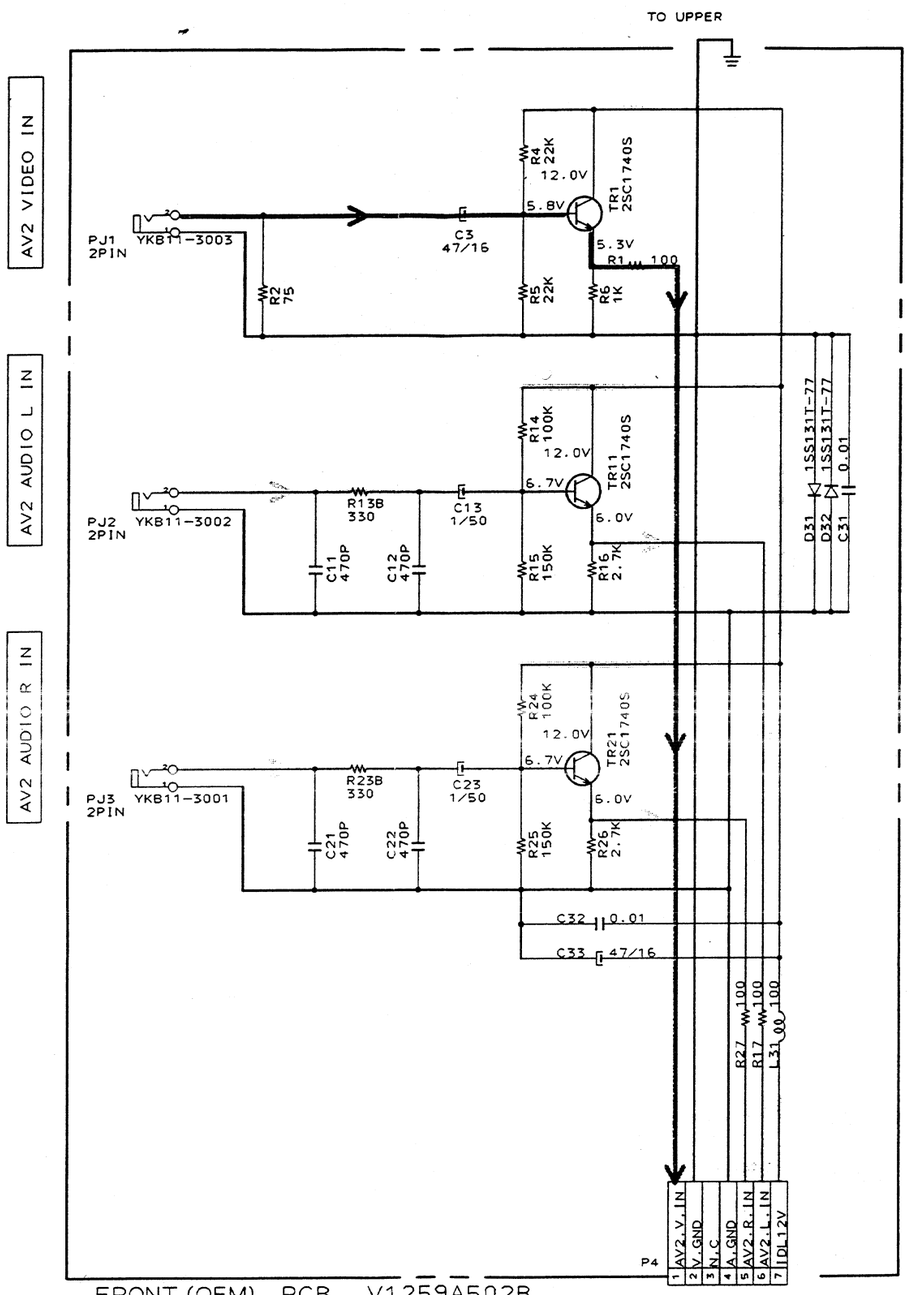


FRONT PCB V1244A502B(NI)

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

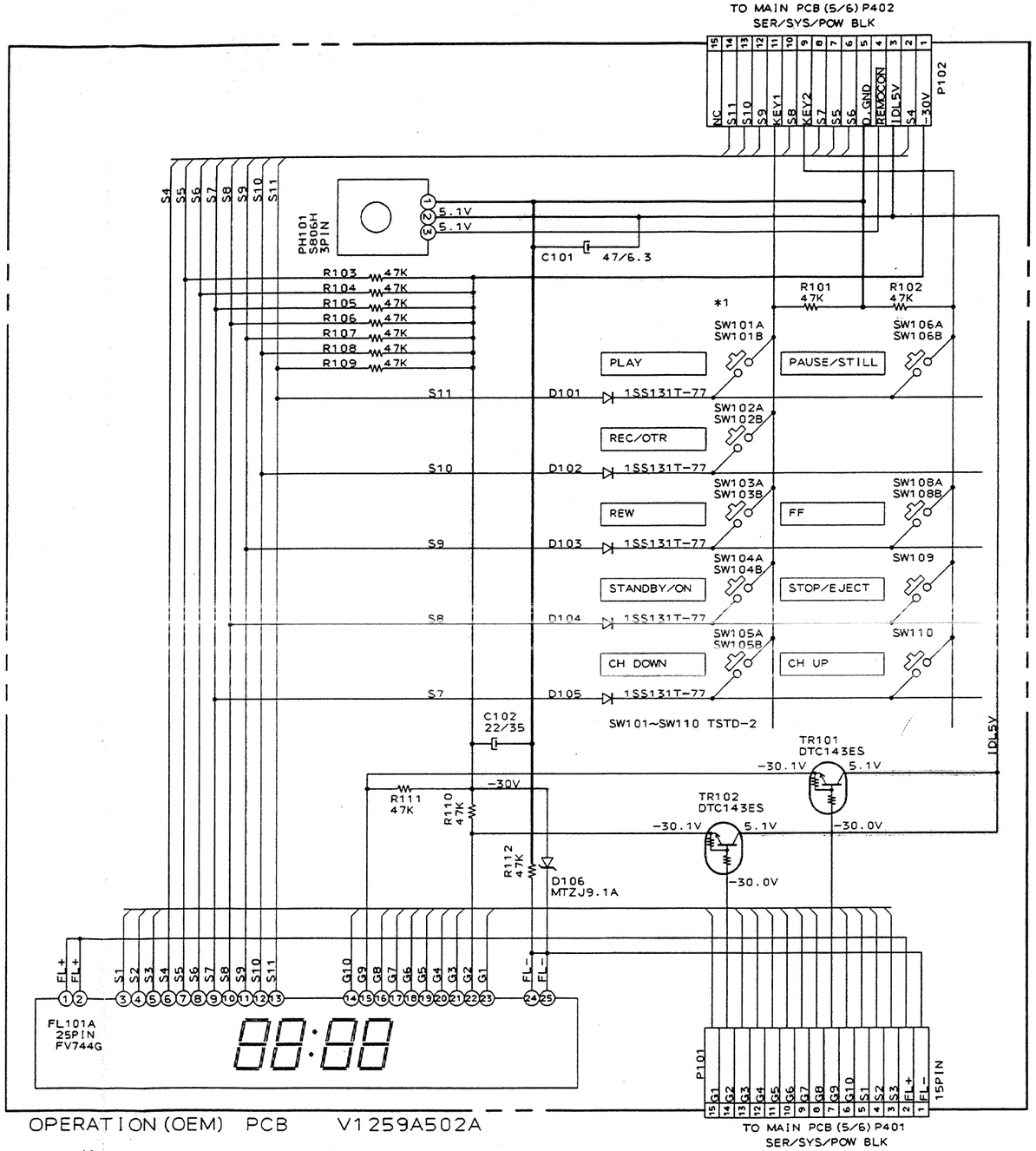


OPERATION PCB V1244A502A(NI)



FRONT (OEM) PCB V1259A502B

TO AUDIO PCB (2/2) P804



OPERATION (OEM) PCB V1259A502A

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN μF/WV

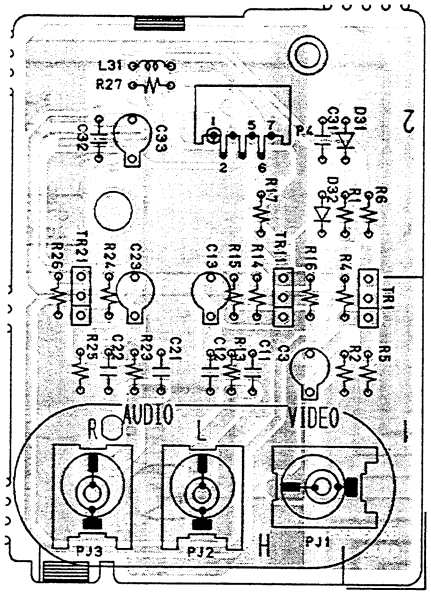
B (POWER SUPPLY) LINE
AUDIO SIGNAL LINE
VIDEO SIGNAL LINE

INDICATED VOLTAGES WERE MEASURED DURING E-E (STOP) MODE.

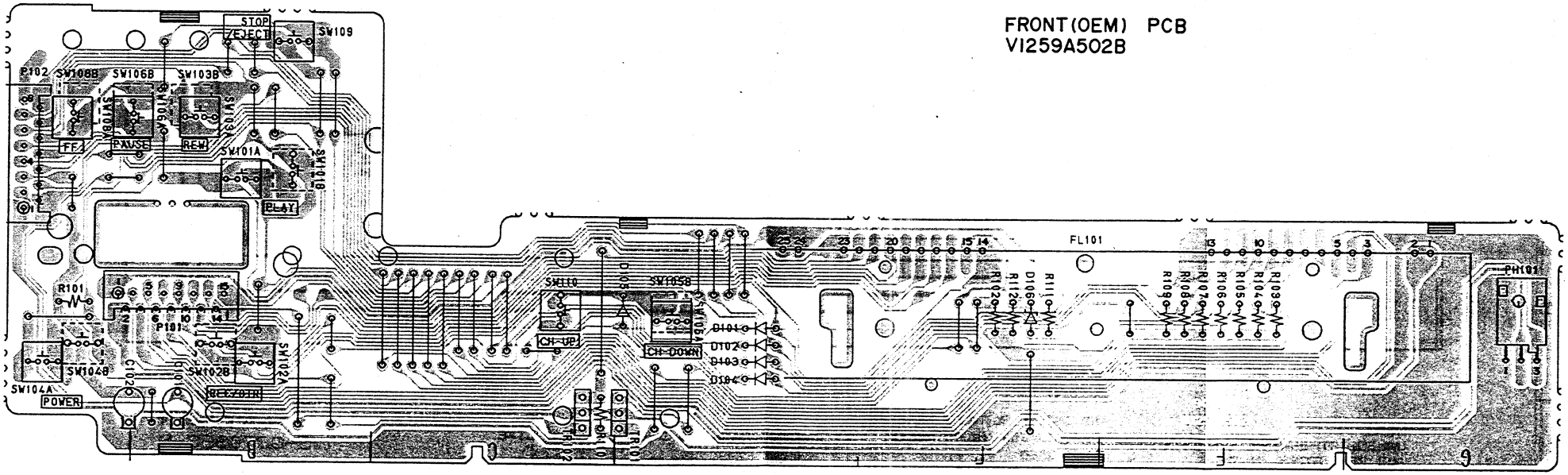
*1
SW101A~SW108A USE 3087CE, 3087NE, 1937NE
SW101B~SW108B USE 4087NE, 6857NE
SW109, SW110 USE ALL

VCR 3087CE
VCR 1937NE/3087NE
VCR 4087NE/6857NE
FRONT/OPERATION SCHEMATIC DIAGRAMS

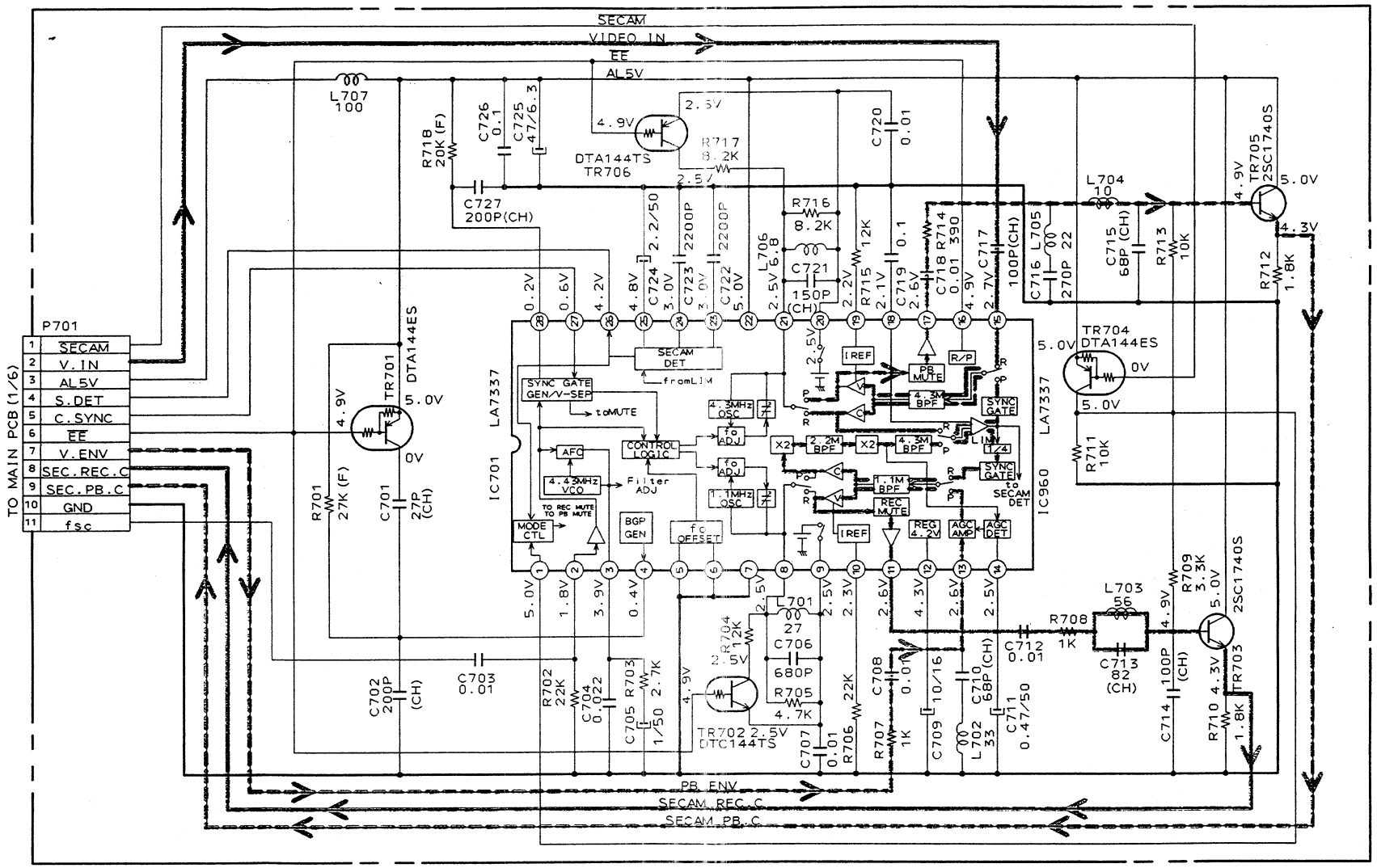
No.16-12 V125312M
A2



FRONT(OEM) PCB
V1259A502B



OPERATION(OEM) PCB V1259A502A



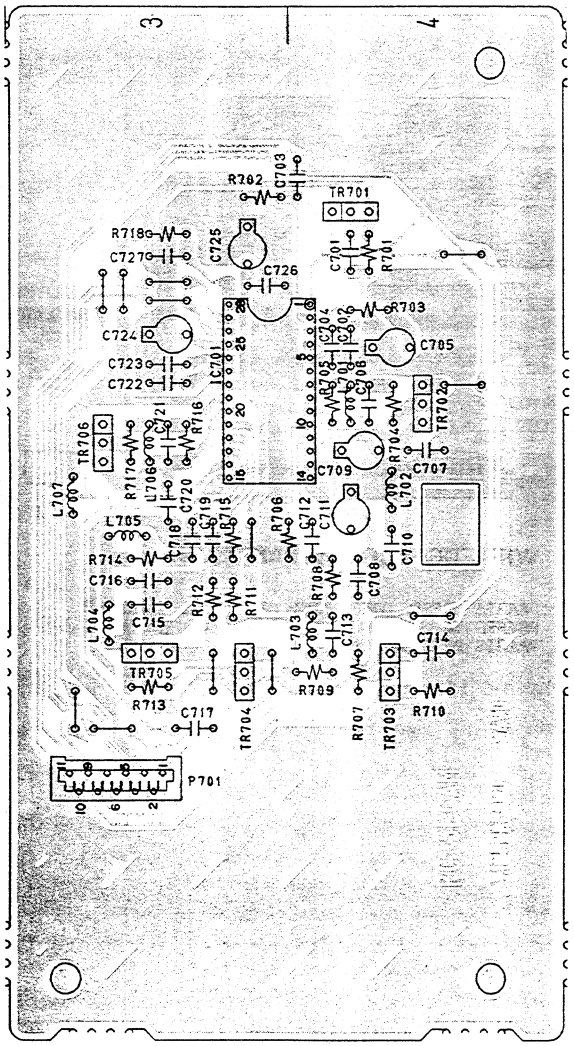
SECAM PCB V1252A5060

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μF

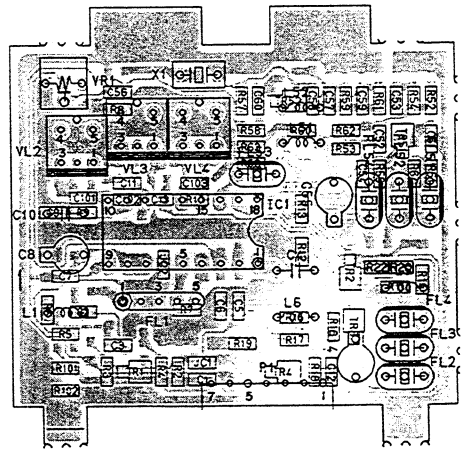
INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
(TAPE USED:
SECAM COLOUR BAR TAPE)
(TAPE SPEED:SP)

B (POWER SUPPLY) LINE
PB CHROMA SIGNAL LINE
REC/EE CHROMA SIGNAL LINE

VS-G760SEG-N
VS-G765SEG-N
VS-G770SEG-N
SECAM
SCHEMATIC DIAGRAM
No.16-13 V1253 13M
A2

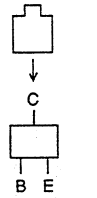


SECAM PCB V1252A5060

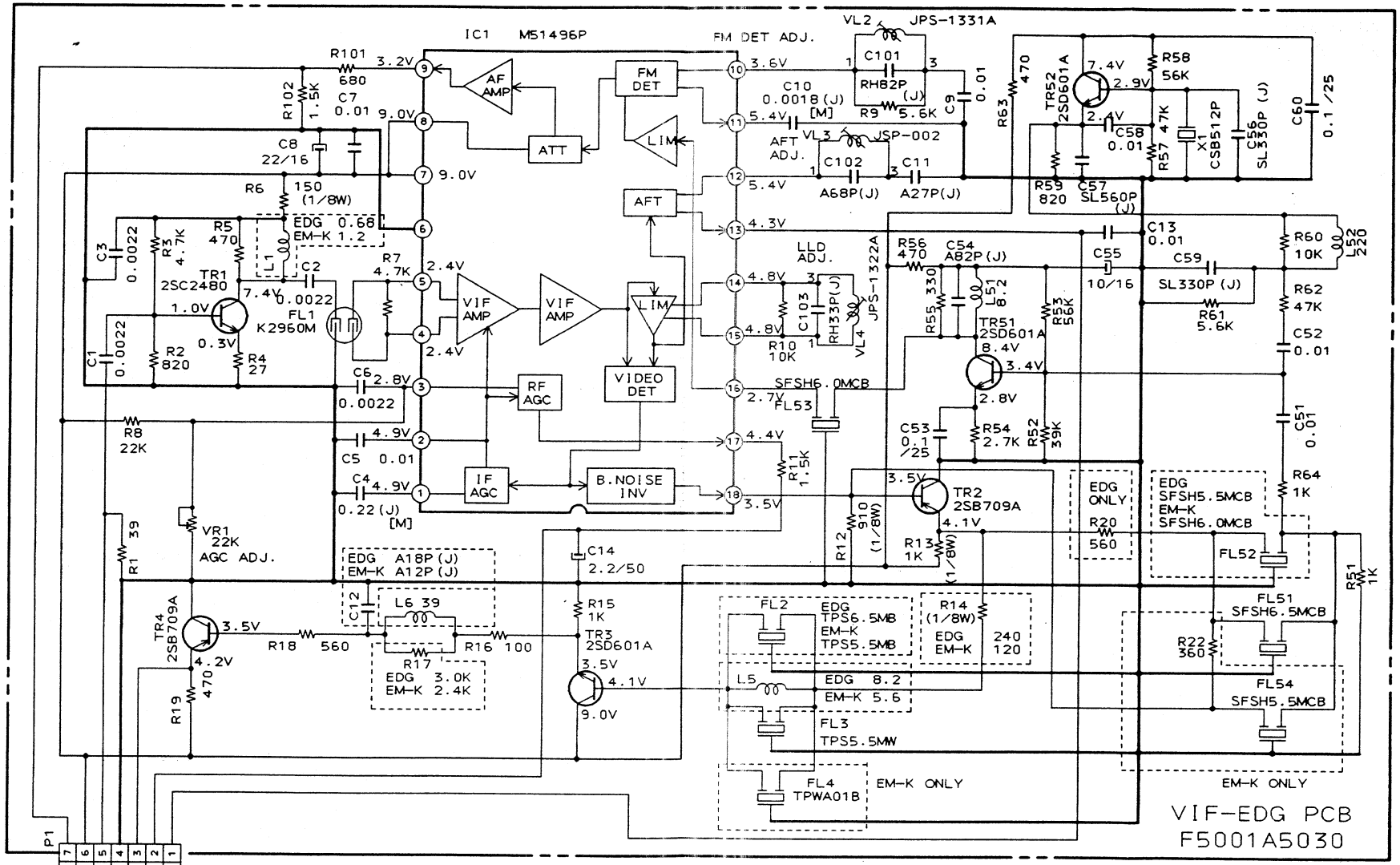


VIF-EDG PCB F5001A5030(N1)

SINGLE CHIP TRANSISTOR



NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

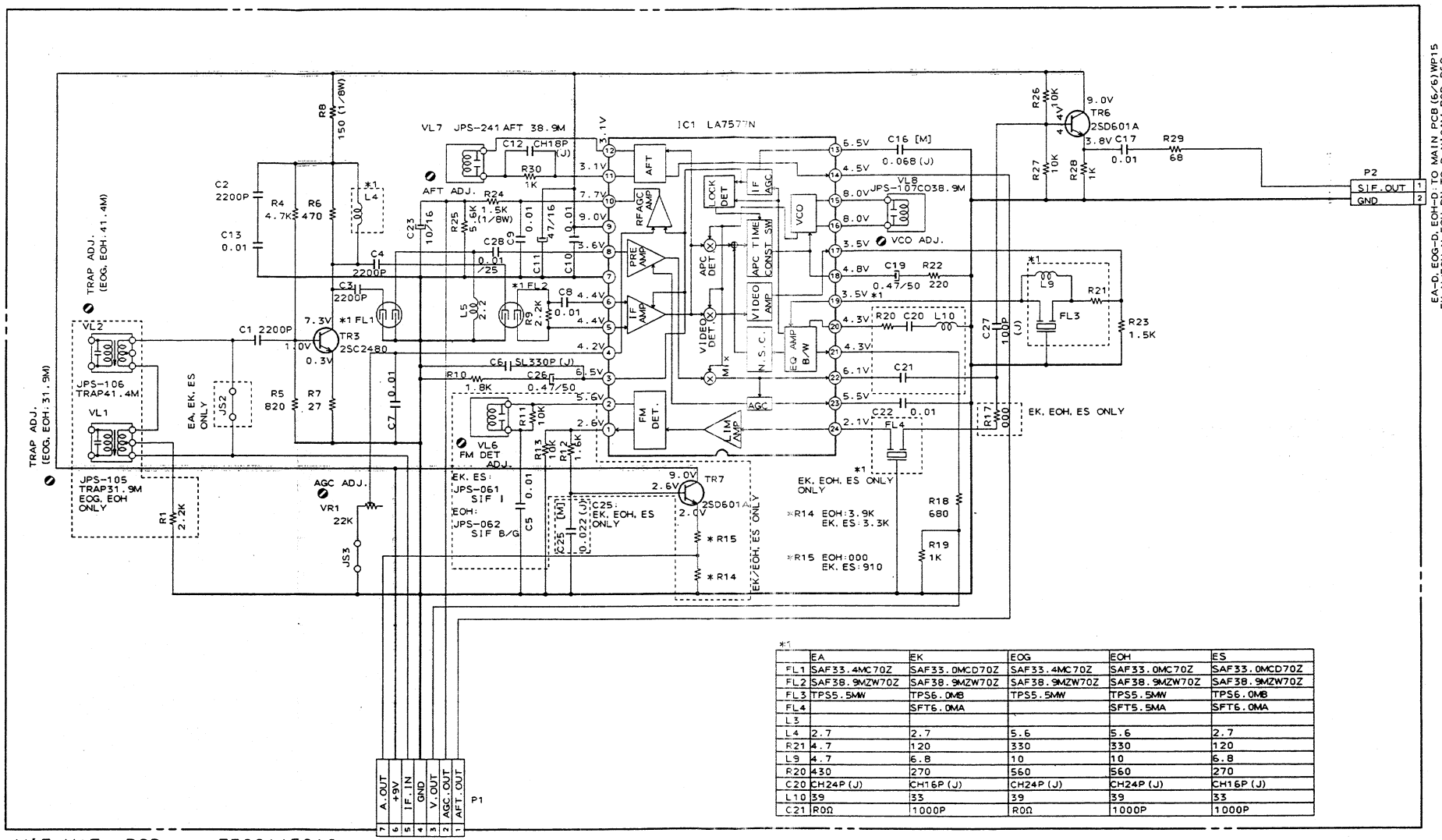


NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W (J)
ALL CAPACITORS IN μF 50WV (K)
ALL INDUCTORS IN μH (J)
ALL ELECTROLYTIC CAPACITORS IN μF/WV (M)
B (POWER SUPPLY) LINE

INDICATED VOLTAGES WERE MEASURED
DURING E-E (STOP) MODE.
(WHEN A STATION WAS BEING RECEIVED)

VIF-EDG PCB
F5001A5030

VS-G760SEG
VIF-EDG
SCHEMATIC DIAGRAM
No.16-14 V124609M
A2



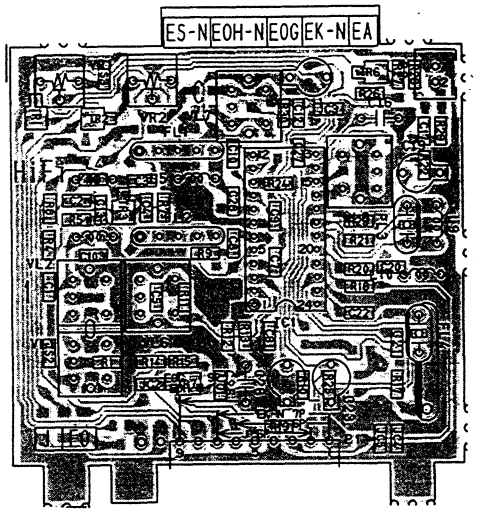
*1

	EA	EK	EOG	EOH	ES
FL1	SAF33.4MC70Z	SAF33.0MCD70Z	SAF33.4MC70Z	SAF33.0MC70Z	SAF33.0MCD70Z
FL2	SAF38.9MZW70Z	SAF38.9MZW70Z	SAF38.9MZW70Z	SAF38.9MZW70Z	SAF38.9MZW70Z
FL3	TPS5.5MW	TPS6.0MB	TPS5.5MW	TPS5.5MW	TPS6.0MB
FL4		SFT6.0MA		SFT5.5MA	SFT6.0MA
L3					
L4	2.7	2.7	5.6	5.6	2.7
R21	4.7	120	330	330	120
L9	4.7	6.8	10	10	6.8
R20	430	270	560	560	270
C20	CH24P (J)	CH16P (J)	CH24P (J)	CH24P (J)	CH16P (J)
L10	39	33	39	39	33
C21	R0Ω	1000P	R0Ω	1000P	1000P

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W (J)
ALL CAPACITORS IN μF 50WV (K)
ALL INDUCTORS IN μH (J)
ALL ELECTROLYTIC CAPACITORS IN μF/WV (M)

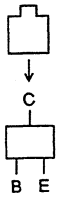
VIF-Hi-Fi SCHEMATIC DIAGRAM

No. 16-15 V125314M
A2

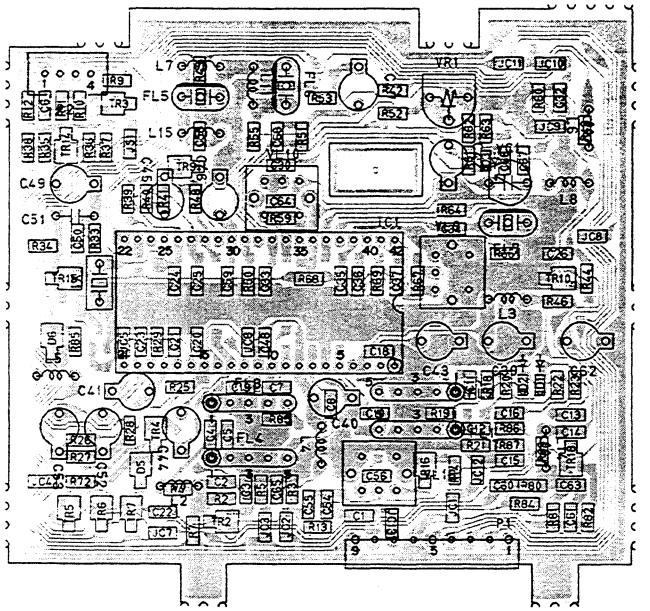


VIF-Hi-Fi PCB F5001A5010(NI)

SINGLE CHIP TRANSISTOR

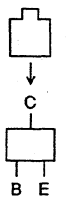


NOTE : PART DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

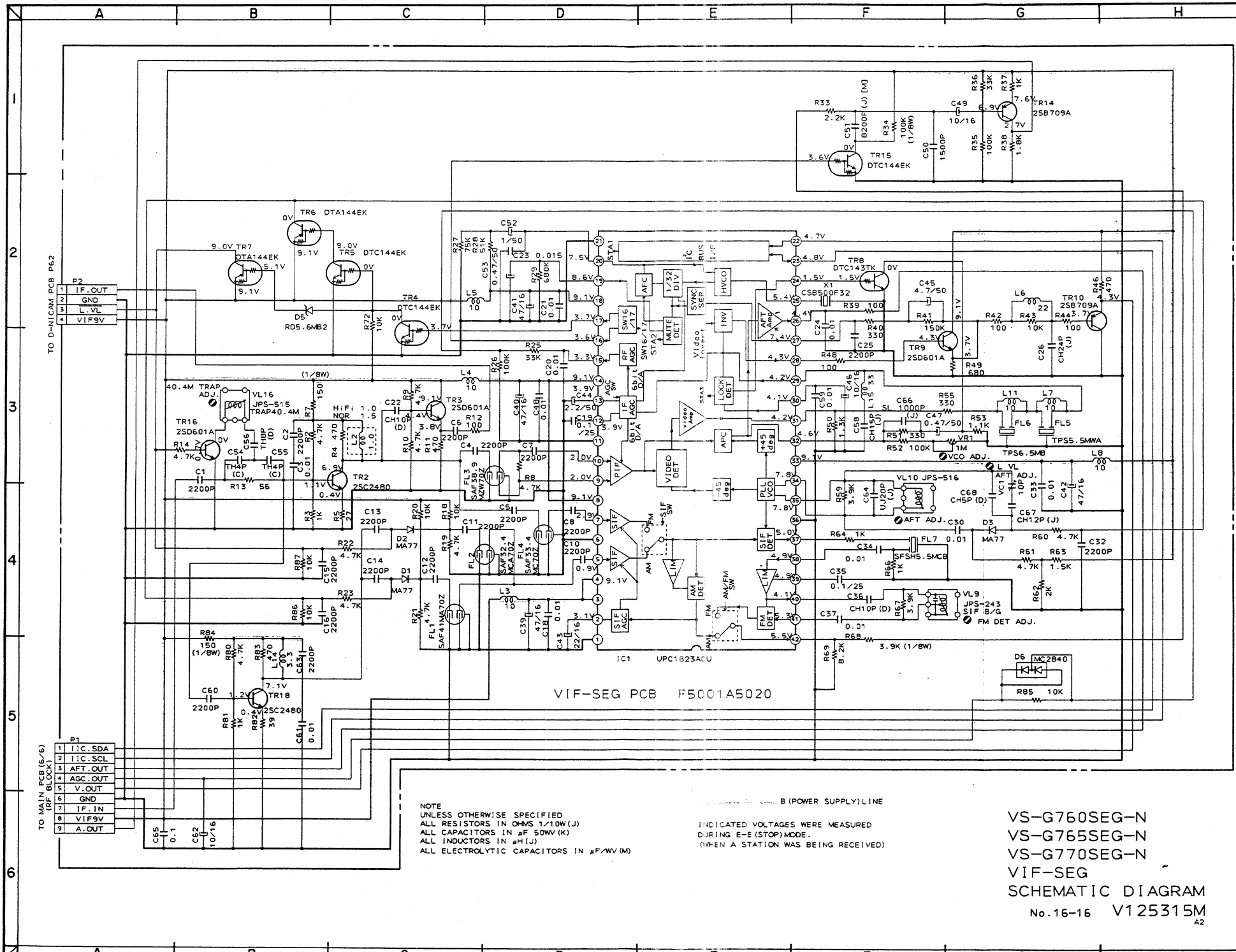


VIF-SEG PCB F5001A5020

SINGLE CHIP TRANSISTOR

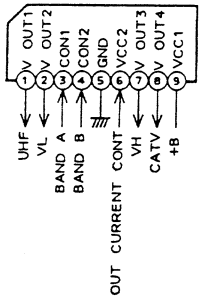


NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.


TO D-NICAM PCB P62
P2
1 IF.OUT
2 GND
3 L.VL
4 VIF9V
TO MAIN PCB (6/6) (RF BLOCK)
P1
1 IIC.SDA
2 IIC.SCL
3 AFT.OUT
4 AGC.OUT
5 V.OUT
6 GND
7 IF.IN
8 VIF9V
9 A.OUT
VIF-SEG PCB F5001A5020
IC1 UPC1823ACU
TR1 2SC2480
TR2 2SC2480
TR3 2SD601A
TR4 DTC144EK
TR5 DTC144EK
TR6 DTA144EK
TR7 DTA144EK
TR8 DTC143TK
TR9 2SD601A
TR10 2SB709A
TR14 2SB709A
TR15 DTC144EK
TR16 2SD601A
TR18 2SC2480
D1 MA77
D2 MA77
D3 MA77
D5 RD5.6MB2
D6 MC2840
X1 CSB500F32
VL16 JPS-515 TRAP40.4M
VL10 JPS-516
VL9 JPS-243 SIF B/G
FL1 SAF41MA70Z
FL2 SAF32.4 MA70Z
FL3 SAF38.9 MA70Z
FL4 SAF33.4 MA70Z
FL5 TPS5.5MWA
FL6 TPS6.5MB
FL7 SFSH5.5MCB
40.4M TRAP ADJ.
VCO ADJ.
AFT ADJ.
FM DET ADJ.
L VL
AFT ADJ.
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/10W(J)
ALL CAPACITORS IN μF 50WV(K)
ALL INDUCTORS IN μH(J)
ALL ELECTROLYTIC CAPACITORS IN μF/WV(M)
B (POWER SUPPLY) LINE
INDICATED VOLTAGES WERE MEASURED DURING E-E (STOP) MODE.
(WHEN A STATION WAS BEING RECEIVED)
VS-G760SEG-N
VS-G765SEG-N
VS-G770SEG-N
VIF-SEG
SCHEMATIC DIAGRAM
No.16-16 V125315M
A2

LA7440M/LA7447BM (Y/C signal processor)

PIN No.	PORT NAME	I/O	FUNCTION
1	MAIN-EMPH	–	Main emphasis filter pin.
2	NL-EMPH	–	Main emphasis filter.
3	PIC-CTL/EDIT	–	Picture control (soft: 2.0 - 2.45 V, hard: 2.55 - 3.0V)/edit (3.8 V or more).
4	AGC-TC2	–	Capacitor connecting pin for AGC DET.
5	YNR-CTL	–	YNR-OFF: 1.0 V or less, YNR-CTL: 1.5 - 2.5 V, YNR-STRONG: 3.5 V or more.
6	NC-CTL	–	NC (noise cancel) off (PB): 1.5 V or less, NC-CTL (PB): 2.0 - 3.0 V.
7	VIDEO-IN	I	REC/E-E video signal input.
8	Vcc	–	+5 V power supply.
9	C-SYNC OUT	O	Composite sync signal output.
10	VCA-FILT	–	Capacitor connecting pin for VCA.
11	VIDEO-OUT	O	E-E or PB video signal out.
12	C.ROT	I	Chroma rotary pulse input.
13	VCA-IN	I	VCA AMP input.
14	QV,QH,CHA-IN	I	Quasi V-pulse & Quasi H-pulse input/character signal input.
15	CCD DRIVE	O	Y signal out pin to Y-CCD.
16	AGC-TC1/BAL	–	Capacitor connection pin for AGC-TC1 and balancer.
17	C-CCD DRIVE1	O	Chroma signal out pin to chroma CCD1.
18	M/$\overline{M}$	–	L: except NTSC (50 Hz), H: NTSC (60 Hz). (7440M only)
	NL-ON	–	L or H: NL OFF, M: NL ON (weak).
	DETAIL-ENHA	–	L or H: detail enhancer normal, M: weak & fc down.
19	C-CCD DRIVE2	O	Chroma signal out pin to chroma CCD2.
20	GND	–	Ground terminal.
21	C-CCD IN	I	Chroma signal input pin from chroma CCD.
22	MODE-CTL	–	SP: 0 - 1.2 V, LP: 2.0 - 2.7 V, EP: 3.9 - 5.0 V.
23	CHROMA-IN	I	Chroma signal input from comb filter.
	SP CS-STOP	–	H: SP carrier shift stop.
24	NAP CTL	–	NAP: 3.3 - 5.0 V, B.M out: 2.0 - 2.7 V, THRU: 0 - 1.2 V.
25	CHROMA-OUT	O	PB chroma signal output. H (SECAM mode): mute ON.
26	$\overline{P}$/S/N	–	Colour mode switching pin (NTSC: 3.9 - 5.0 V, MESEC: 2.0 - 2.7 V, PAL: 0-1.2V).
27	VXO-IN1	I	Crystal1 connecting pin (7440M: 3.58 MHz, 7447BM: 4.43 MHz).
28	VXO-OUT1	O	Crystal1 connecting pin (7440M: 3.58 MHz, 7447BM: 4.43 MHz).
29	REC-APC FIL	–	Capacitor connecting pin for REC APC detector.
	TRICK-H	–	3.9 V or more after COMB in SP mode.
30	XO-OUTA	O	Crystal connecting pin (4.43 MHz, 7440M only).
31	XO-OUTB	O	Crystal connecting pin.
32	VXO-IN2	I	Crystal connecting pin (4.43 MHz, 7440M only).
33	Vcc-1	–	+5 V power supply pin.
34	BGP-OUT	O	Burst gate pulse output pin.
35	FILT-CTL	–	H: 3.58 MHz, L: 4.43 MHz.
36	SLD-FILT	–	Capacitor connecting pin for SLD.
37	AFC/APC FILT	–	Capacitor connecting pin for AFC DET (REC) or APC DET (PB).
38	REC C-OUT	O	REC low chroma signal output.
	PB C-IN	I	PB low chroma signal input.
39	KILL-FILT	–	Capacitor connecting pin for killer detector.
40	KILLER-OUT	O	REC: APC killer out (H: killer ON).
	SLD-OUT	O	PB: side lock detector pulse output.
41	ACC-FILT	–	Capacitor connecting pin for ACC AMP.
42	GND	–	Ground pin.
43	PB FM-IN	I	PB-Y FM signal input.
44	MOD-OUT	O	REC-Y modulator output signal.
	DOC-STOP	–	Drop-out compensator control (H: DOC stop).
45	VREG	–	4.2 V regulator out.
46	REC-Y	O	REC-Y signal output.
	MAIN DE-EMPH OUT	O	Main de-emphasis output.
47	CLAMP	I	Clamp circuit input.
48	EMPH-OUT	–	Main emphasis out.
	R/P CTL	–	REC/PB control (PB: H).



INPUT		OUTPUT			
CON1	CON2	V OUT1	V OUT2	V OUT3	V OUT4
L	L	H	Z	Z	Z
H	L	Z	H	Z	Z
L	H	Z	Z	H	Z
H	H	Z	Z	Z	H

Z:HIGH IMPEDANCE

LC74763 (Character generator)

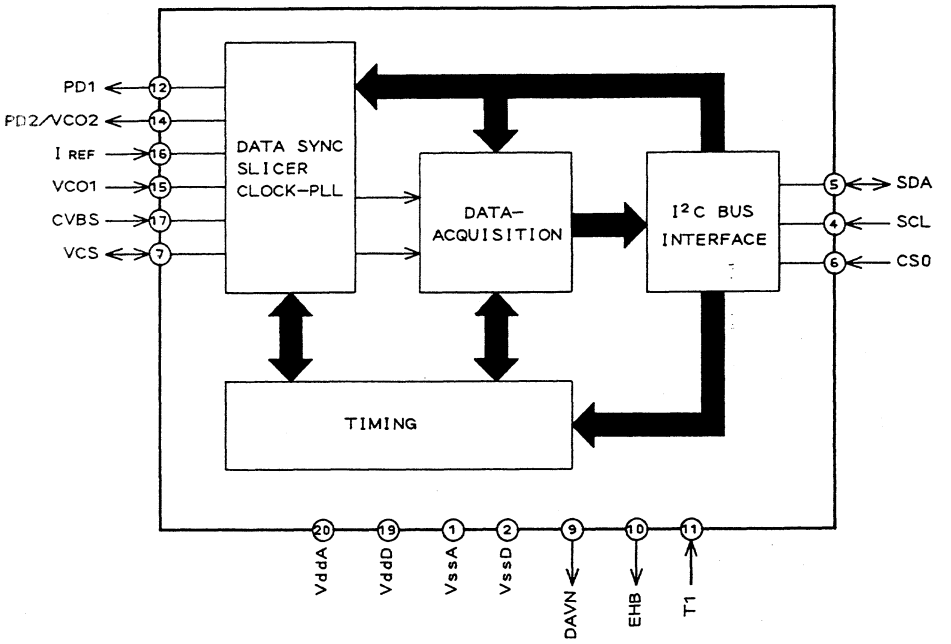
PIN No	PORT NAME	I/O	FUNCTION
1	Vss	—	Connect the GND
2	XTAL in1	I	14.318 MHz crystal oscillator input
3	XTAL out1	O	14.318 MHz crystal oscillator output
4	H SYNC	O	AFC H sync output
5	XTAL in2	I	17.744 MHz crystal oscillator input
6	XTAL out2	O	17.744 MHz crystal oscillator output
7	V SYNC	O	V. SYNC output
8	$\overline{CS}$	I	Enable input pin of serial data input
9	SIN	I	Serial data input
10	SCLK	I	Clock input pin for serial data input
11	SECAM	I	SECAM mode select pin (H : SECAM MODE)
12	$\overline{525}$/625	I	Select pin, 525 or 625 of scanning line
13	$\overline{NTSC}$/PAL	I	NTSC/PAL SELECT PIN (L : NTSC)
14	$\overline{3.58}$/4.43	I	3.58MHz or 4.43MHz select input
15	$\overline{RST}$	I	System reset input
16	CVOUT	O	Composite video signal output
17	VDD2	—	Power supply (+5 V)
18	CVIN	I	Composite video signal input
19	CVCR	I	Chroma signal input for SECAM mode
20	SYNC IN	I	Video signal input of internal sync separator circuit
21	SEPC	—	Adjustment pin of internal sync separator circuit
22	Vss	—	Connect the GND
23	PD OUT	O	AFC control voltage output
24	AM PIN	I	Filter connect pin for AFC circuit
25	AM POUT	O	Filter connect pin for AFC circuit
26	FC	I	AFC control voltage input
27, 28	VCO IN (out)	I/O	Coil and capacitor connecting pin of LC oscillator for VCO.
29	SYNC DET	O	Exclusive NOR logic output of H SYNC AND C SYNC
30	VDD1	—	Digital power supply (+5 V)

M37774M9-EXHSYPL/EXHSYSL/EXHSYN (System control & servo MI-COM)

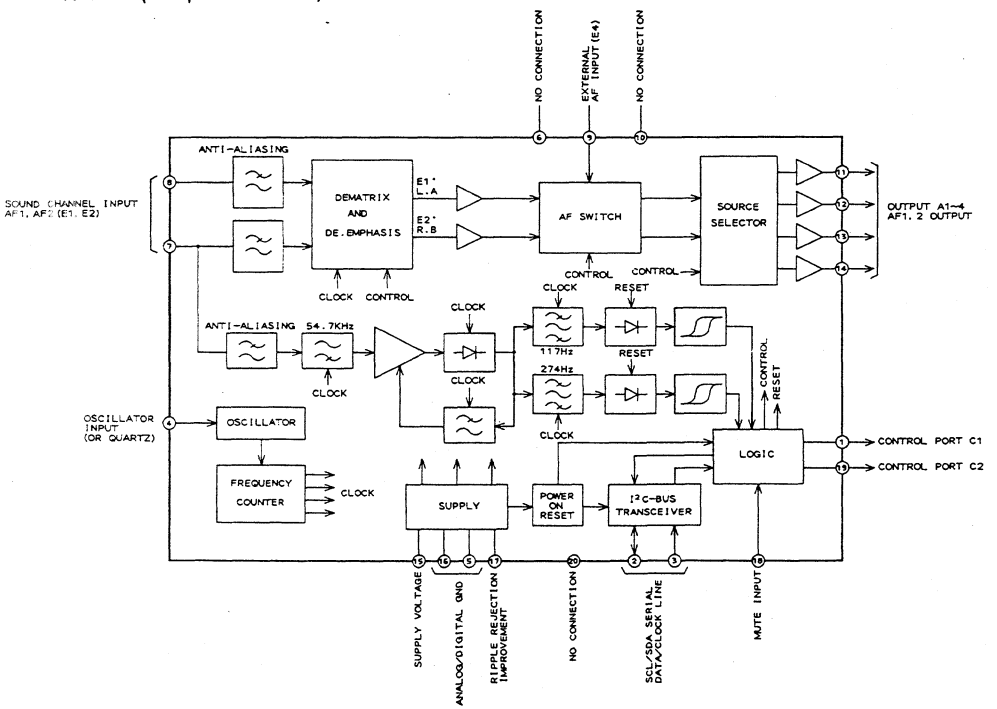
PIN No.	PORT NAME	I/O	FUNCTION
1	SYS RDY	I	Data transfer ready signal input from OPERATION MI-COM.
2	TU PWM	O	Tuning voltage output for tuner. (PWM)
3	CM PWM	O	Capstan motor's speed & phase error output. (PWM)
4	DM PWM	O	Drum motor's speed & phase error output. (PWM)
5	SRP	I	Supply reel pulse input.
6	TRP	I	Take up reel pulse input.
7	S.DET	I	SECAM (MESECAM) judge input. (SECAM/MESECAM : H)
8	C.SYNC	I	Composite sync input. (for video judge)
9	NP	O	NTSC → PAL/NTSC4.43 switching output
10	REC/MUTE/$\overline{PB}$	O	REC control for video section (PB : L, REC MUTE : M, REC : H).
11	$\overline{REMOCON}$	I	Remote control signal input.
12	PIC/V.REC V	O	PB : picture control output. REC : Video head REC current (AGC) control output.
13	NC CTL	O	Noise cancel circuit control output (I-HQ).
14	V.SWP	O	Video head switching pulse output.
15	C.ROT	O	Chroma rotation pulse output pin.
16	HEAD CTL	O	Video head SP/LP select.
17	COMP OUT	I	Input from PRE AMP's comparator (for head select when CUE/REV).
18	CDC	O	Color compensation control output when LP trick mode.
19	$\overline{EE}$	O	E-E mode control pin.
20	VP	O	Quasi V pulse signal output.
21	V.TUNE	O	Tuning output for I-HQ system (L,M or H).
22	YNR	O	Y-noise reduction control output.
23	$\overline{AREC}$/MUTE	O	REC mute control output for Hi-Fi audio section (H : mute)
24	N.C	O	No connection.
25	A.SWP	O	Audio switching pulse output for Hi-Fi head.
26	BU5V	–	+5 V buck up power supply.
27	OSC.H	O	Normal audio & FE oscillator control.
28	TRQ UP	O	Loading motor torque control.
29	LM F	O	Loading motor direction control. (forward)
30	LM R	O	Loading motor direction control. (reverse)
31~33	RSW1~3	I	Input from the rotary (MECHA. position detect) switch 1~3.
34	HI.REW	O	This pin turns to "H" when high speed FF/RWD mode (H : >x11).
35	NUB	–	No connection.
36	NUA	–	No connection.
37	$\overline{RESET}$	I	Reset input.
38	X.IN	I	Main clock OSC input. (f=16 MHz)
39	X.OUT	O	Main clock OSC output. (f=16 MHz)
40	CLK SEL	I	Clock select input. (H : main & sub clock OSC are active, L : only sub clock OSC is active)
41	VSS	–	Ground.
42	XC IN	I	Sub clock OSC input. (f=32.768 kHz)
43	XC OUT	O	Sub clock OSC output. (f=32.768 kHz)
44	I²C SCL	O	EEP ROM serial clock output.
45	I²C SDA	I/O	EEP ROM serial data input/output.
46	NTSC	O	NTSC/PAL, MESECAM, SECAM select output.
47	MODU	O	RF converter output on/off control.
48	AL TU	O	AL power supply control output. (H : AL power on)
49	AV1/AV2	O	AV1/AV2 select control output.
50	REC SAF	I	REC safety switch input.
51	VJ	O	Video judge output. (no signal : L)
52	$\overline{AFT}$	O	AFT on/off control output (L : on, H : off).
53	BAND A	O	Tuner band select output.
54	BAND B	O	
55	$\overline{TV}$/VCR	O	TV/VIDEO select control output.
56	INT/$\overline{EXT}$	O	Input select control output.
57	A.MUTE	O	Audio mute control (H : mute).
58	TRICK	O	H when trick mode.
59	TUNE. H	O	I-HQ control for video section.

PIN No.	PORT NAME	I/O	FUNCTION
60	T.MUTE	O	Tuner mute control (H : mute).
61	N.C	–	No connection.
62	CM STOP	O	Capstan motor stop control.
63	$\overline{F}$/R	O	Capstan motor direction control. ($\overline{FWD}$/REV)
64	$\overline{CTL}$ GAIN	O	CTL AMP gain select when FF/REW (FF/RWD : L).
65	AMP VCC	O	+5 V power supply for analog AMP section.
66	DM PG	I	Drum motor PG signal input.
67	DM FG	I	Drum motor FG signal input.
68	CAP FG	I	Capstan motor FG signal input.
69	VREF OUT	O	Reference voltage output for analog AMP.
70	VREF IN	I	Reference voltage input for analog AMP.
71	CTL AMPF	I	CTL clamp AMP positive input.
72	CTL AMPR	I	CTL clamp AMP negative input.
73	AMP OUT	O	CTL AMP output.
74	AMP.C	–	Capacitor connecting pin for CTL AMP.
75	CTLAMP IN	I	CTL AMP input.
76	+SW OUT	O	CTL switched output.
77	CTL+	I/O	CTL positive side input/output.
78	CTL–	I/O	CTL negative side input/output.
79	CTL VSS	–	Ground for CTL.
80	AMP VSS	–	Ground for AMP
81	BU5V	–	+5 V buck up power supply.
82	VREF	–	Reference voltage input for A/D converter.
83	WS.J	I	Wide screen judge signal input.
84	$\overline{C.K.DET}$	I	APC killer detect/SLD pulse input.
85	AFT E	I	AFT error signal (analog) input when tuning.
86	$\overline{ES}$	I	End sensor input.
87	$\overline{SS}$	I	Start sensor input.
88	A.ENV. DET	I	Hi-Fi ENVE detection input for I-HQ & auto tracking.
89	$\overline{SP}$/LP/EP	O	Circuit switching regarding the tape speed (SP : L, LP : M, EP : H).
90	N/S/$\overline{P}$	O	NTSC/SECAM/PAL select control (H,M,L).
91	CT DET	I	Cross talk detect input (for auto tracking).
92	V.ENV.DET	I	Video envelope detect input (for auto tracking & I-HQ).
93	C.SYNC	I	Composite sync input. (for internal V-sync separation)
94	WS/$\overline{NOR}$	O	AV control voltage switching output during wide screen output .
95	$\overline{SHORT}$	I	Power supply abnormal condition detect input. (L : REG voltage is too high or too low)
96	$\overline{P.DOWN}$	I	Power down detect input.
97	RESET OUT	O	Reset output to operation MI-COM.
98	SYS DATA	O	Serial data out to operation MI-COM.
99	OPE DATA	I	Serial data in from operation MI-COM.
100	SYS CLK	O	Serial clock output to operation MI-COM.

PIN No.	PORT NAME	I/O	FUNCTION
1,5,6,9, 10,18,19, 20,26,32, 33,40,51, 52,58,60 64	NC	–	Not connected-left open circuit in application.
2	EXTR	I	External analogue input to the right audio channel.
3	FMR	I	FM sound input to the right audio channel.
4	OPR	O	Analogue output from the right audio channel.
7	VROA	O	Internal audio reference voltage buffer output.
8	VSSDAC	–	Quiet Vss to DACs.
11	OPL	O	Analogue output from the left audio channel.
12	FML	I	FM sound input to the left audio channel.
13	EXTL	I	External analogue input to the left audio channel.
14	PORM	–	Active low Power-On Reset Mute. Mute cleared by setting silence bit high in I²C. (internal pull-up)
15	PORA	–	Power-On Reset Audio select. (internal pull-up)
16	REMVE	–	Carrier loop filter connection.
17	REMO	O	Carrier loop filter output.
21	SEYE	O	Sine channel eye pattern output for monitoring.
22	SOFF	–	Sine channel offset compensator capacitor.
23	ASSF1	–	Demodulator Vss.
24	VCLK	O	Carrier loop VCO clock output for monitoring.
25	VDDF1	–	Demodulator VDD.
27	VCONT	I	Carrier loop VCO control voltage input.
28	MIXREF	–	Mixer voltage reference or input when using differential DQPSK signal.
29	DQPSK	I	DQPSK input signal.
30	COFF	–	Cosine channel offset compensator capacitor.
31	CEYE	O	Cosine channel eye pattern output for monitoring.
34	PKDET	–	AGC peak detector storage capacitor.
35	VROF	O	Internal demodulator reference voltage buffered output.
36	IREF	O	Internal demodulator reference current output.
37	VRCF	O	Internal demodulator reference voltage unbuffered output.
38	VDDF2	–	Demodulator VDD.
39	VSSF2	–	Demodulator Vss.
41	CLKLPF	O	Clock loop phase comparator output.
42	XTAL	I	8.192 MHz crystal oscillator input.
43	OSC	O	8.192 MHz crystal oscillator output.
44	VSSx	–	Crystal oscillator Vss.
45	DATAIN	I	Serial data input at 728 k bits/s to decoder.
46	DATAOUT	O	Serial data output at 728 k bits/s from demodulator.
47	PCLK	O	Output clock at 728 kHz to DQPSK demodulator.
48	VSSD	–	Digital Vss.
49	VDDD	–	Digital VDD.
50	$\overline{\text{RESET}}$	I	Active low power-on reset.
53	SCL	I	Clock input for I²C.
54	SDA	I/O	Data input/output for I²C.
55	ADSEL	I	Input that defines I²C address bit 0. (internal pull-up)
56	PORT2	O	Output that it derectly controlled from port 2 bit in I²C.
57	$\overline{\text{MUTE}}$	I	Active low mute input whose function is defined by mutedef bit in I²C.
59	DOBM	O	Digital audio interface output that can be tri-stated via I²C.
61	VDDA	–	Audio VDD.
62	VSSA	–	Audio Vss.
63	VRCA	–	Internal audio reference voltage buffer (high impedance node).



TDA8417 (Multiplexed decoder)

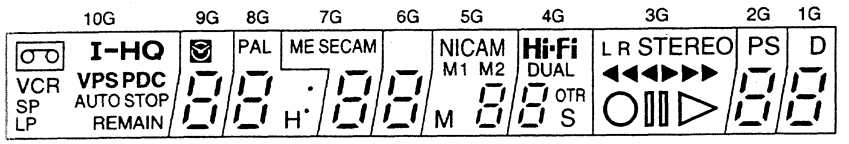


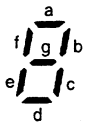
TDA9614H (Hi-Fi & normal audio signal processor)

PIN No.	PORT NAME	I/O	FUNCTION
1	SAP	I	SAP input pin. (reserved monaural input)
2	TUNL	I	L-ch tuner input pin.
3	TUNR	I	R-ch tuner input pin.
4	CINL	I	L-ch Cin-ch input pin. (MIC input)
5	CINR	I	R-ch Cin-ch input pin. (MIC input)
6	EXT1L	I	L-ch external 1 input pin.
7	EXT1R	I	R-ch external 1 input pin.
8	EXT2L	I	L-ch external 2 input pin.
9	EXT2R	I	R-ch external 2 input pin.
10	EXT3L	I	L-ch external 3 input pin.
11	EXT3R	I	R-ch external 3 input pin.
12	RAF	O	Headphone AMP REC/PLAY switching pin.
		I	I²C bit RAF non-effective input pin.
13	VDD	–	+5 V digital power supply pin for I²C.
14	SDA	I	I²C BUS serial data input pin.
15	SCL	I	I²C BUS serial clock input pin.
16	VSSD	–	Ground pin for I²C signal.
17	RFCAGC	–	RF converter AGC time constant setting pin.
18	RFCOUT	O	RF converter drive output pin.
19	LINE 2L	O	L-ch 2nd line output pin. (decoder output)
20	LINE 2R	O	R-ch 2nd line output pin. (decoder output)
21	LINE L	O	L-ch line output pin.
22	LINE R	O	R-ch line output pin.
23	DCOUT L	O	L-ch level meter driver pin.
24	DCOUT R	O	R-ch level meter driver pin.
25	HPOUT L	O	L-ch headphone output pin.
26	HPOUT R	O	R-ch headphone output pin.
27	LINAGC	–	Linear audio AGC time constant setting pin.
28	LININ	I	Audio input pin for linear audio that will be supplied to the output select circuit or REC EQ.
29	LINOUT	O	Audio output pin from AGC or PB EQ.
30	EQ SW	–	LP mode PB EQ switching pin.
31	REC EQ	I	Linear audio REC AMP negative input for REC EQ network connection.
32	LINREC	O	This pin drives an external high voltage head switch or bias OSC.
33	RECOUT	O	Linear audio recording AMP output pin.
34	PB IN	I	Linear audio PB AMP input pin.
35	RES SW	–	LP mode PB EQ switching pin.
36	PB DC	–	DC de-coupling capacitor connecting pin for linear audio PB AMP.
37	DCFBL	–	DC feedback pin for L-ch.
38	DCREFL	–	DC reference voltage pin for L-ch.
39	EMPHL	–	L-ch total emphasis setting pin.
40	RECTL	–	L-ch rectifier DC de-coupling pin.
41	DETL	–	L-ch attack/recovery time constant setting pin.
42	VREF	–	Capacitor connecting pin for reference voltage. (+3.8 V)
43	VSSA1	–	Analog ground for LF circuit.
44	DETR	–	R-ch attack/recovery time constant setting pin.
45	RECTR	–	R-ch rectifier DC de-coupling pin.
46	EMPHR	–	R-ch total emphasis setting pin.
47	DCREFR	–	DC reference voltage pin for R-ch.
48	DCFBR	–	DC feedback pin for R-ch.
49	RFIX	–	Fixed bias current generating circuit pin.
50	VDDA1	–	+12 V analog power supply pin for LF circuit.
51	AFNR	I/O	Audio output pin from R-ch NR circuit when recording and by-pass mode. Audio input pin for R-ch NR circuit when PB mode.
52	AFMR	I/O	Audio input pin for R-ch clipping circuit when REC & by-pass mode. Audio output pin from sample & holding circuit.
53	RCCOR	–	Voltage to current converting pin for R-ch OSC that is grounded with an external resistor.
54	VssA1	–	Analog ground pin for Hi-Fi circuit.
55	RBPF	–	Bias current generating pin for internal BPF that is grounded with an external resistor.
56	FM OUT	O	REC FM signal output pin.
57	FM IN	I	PB FM signal input pin.
58	VDDA1	–	+5 V analog power supply pin for Hi-Fi circuit.
59	RCCOL	–	Voltage to current converting pin for L-ch OSC that is grounded with an external resistor.
60	ENV OUT	O	Envelope detector output pin.
61	HID	I	Head ID pulse input pin for sample & holding circuit.
62	CM MUTE	–	Capacitor connecting pin for PB mute timing control.
63	AFML	I/O	Audio input pin for L-ch clipping circuit when REC & by-pass mode. Audio output pin from sampled & holding circuit.
64	AFNL	I/O	Audio output pin from L-ch NR circuit when recording and by-pass mode. Audio input pin for L-ch NR circuit when PB mode.

PIN No.	PORT NAME	I/O	FUNCTION
1~7 78~80	G1~G10	O	FLD digit data output.
8,52	VDD	–	+5 V power supply.
9	OSD CLK	O	Serial clock output to OSD IC.
10	OSD DATA	O	Serial data output to OSD IC.
11	N.C	O	Not used.
12	OSD CS	O	Chip enable output to OSD IC.
13	SYS RDY	O	Syscon transfer ready signal output.
14	SYS CLK	I	Serial clock input from SYS-CON MI-COM.
15	OPE DATA	O	Serial data output to SYS-CON MI-COM.
16	SYS DATA	I	Serial data input from SYS-CON MI-COM.
17	$\overline{\text{RESET}}$	I	Reset signal input.
18	N.C	–	Not used.
19	N.C	–	Not used.
20	AVSS	–	Ground for A/D converter.
21	BOOST.H	O	Loudness control on/off select pin.
22	WIDE.H	O	Theatre sound on/off control pin.
23,24	N.C	O	Not used (pulled down).
25	VR.REC	I	Not used.
26	VR.PH	I	Not used.
27	AR.DET	I	Not used.
28	AL.DET	I	L-ch REC level/level meter detection input (A/D input).
29	AVDD	–	+5 V analog power supply for A/D converter.
30	AVREF	I	A/D converter reference voltage input. (+5 V)
31	S.PACK	I	Not used.
32	N.C	–	No connecton.
33	VSS	–	Ground pin.
34	X1	I	Main clock (5.0 MHz) input/output.
35	X2	O	
36~44	N.C	O	Not used.
45	$\overline{\text{SECAM}}$/3NT	O	$\overline{\text{PAL/SECAM}}$ switching output (SEG) or NTSC 4.43/3.58 switching (EDG).
46	$\overline{\text{SEC.MES}}$	O	$\overline{\text{SECAM·MESECAM}}$ judge output.
47	DAVN	I	VPS/PDC reception data input pin.
48	IC	–	Ground pin.
49	N.C	I/O	Not used.
50	I²C DATA	I/O	I²C BUS serial data in/out for VPS/PDC decoder & EEP ROM, etc.
51	I²C CLK	O	I²C BUS serial clock ouput for VPS/PDC decoder & EEP ROM, etc.
53	DEC CTL	I	Scramble on/off judge input (L : scramble on).
54	N.C	I	Not used (pulled down).
55	DECODER.H	O	If a NICAM reception signal is scrambled, this pin controls to send FM MONO signal to the DECODER.
56	FM MONO.H	O	If a NICAM reception signal is scrambled, this pin switches the signal that comes from via DECODER.
57	MIC.H	I	Detection input, whether a microphone is connected or not (not used).
58,59	K1,K2	I	Key scan input.
64~70 72~75	S1~S11	O	FLD segment data output.
71	Vload	–	FLD pull down power supply for blanking.
76,77	N.C	–	No connection.

GRID ASSIGNMENT



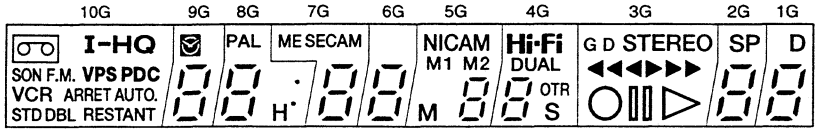


INTERNAL CONNECTION

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
S1	STOP	a	a	a	a	a	a	▶▶	a	a
S2	AUTO	b	b	b	b	b	b	◀◀	b	b
S3	VCR	c	c	c	c	c	c	▯	c	c
S4	SP	d	d	d	d	d	d	○	d	d
S5	LP	e	e	e	e	e	e	▯	e	e
S6	REMAIN	f	f	f	f	f	f	◀	f	f
S7	⊡	g	g	g	g	g	g	▷	g	g
S8	VPS	▽	H			M	S	▶	PS	D
S9	PDC		·	SECAM		M2	OTR	STEREO		
S10	I-HQ		·	ME		M1	DUAL	R		
S11			PAL			NICAM	Hi-Fi	L		

FLD FV745G

GRID ASSIGNMENT



INTERNAL CONNECTION

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
S1	ARRET	a	a	a	a	a	a	▶▶	a	a
S2	SON F.M.	b	b	b	b	b	b	◀◀	b	b
S3	VCR	c	c	c	c	c	c	‖	c	c
S4	STD	d	d	d	d	d	d	○	d	d
S5	DBL	e	e	e	e	e	e	‖	e	e
S6	⊡	f	f	f	f	f	f	◀	f	f
S7	RESTANT	g	g	g	g	g	g	▷	g	g
S8	AUTO.	⊡	H			M	S	▶	SP	D
S9	**VPS**		•	SECAM		M2	OTR	STEREO		
S10	**PDC**		•	ME		M1	DUAL	D		
S11	**I-HQ**		PAL			NICAM	**Hi-Fi**	G		